



**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
PROPOSED NAILAH COMMONS  
710 EAST FERRY STREET  
AND  
6431 HASTINGS STREET  
DETROIT, MICHIGAN 48202**

*prepared for*

**DETROIT/WAYNE COUNTY PORT AUTHORITY  
8109 EAST JEFFERSON AVENUE  
DETROIT, MICHIGAN, 48214**

**AKT PEERLESS PROJECT NO. 5307D-2-20  
JANUARY 16, 2007**



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### **1.0 INTRODUCTION**

Detroit/Wayne County Port Authority (DWCPA) retained AKT Peerless Environmental Services (AKT Peerless) to conduct a Phase II Environmental Site Assessment (ESA) of the property located on East Kirby Street and East Ferry Street on the western side of the Walter P. Chrysler Service Freeway (I-75) Drive in Detroit, Wayne County, Michigan (subject property). This report summarizes the subsurface investigation activities conducted at this property. This report was completed on behalf of DWCPA and Nailah, LLC (the Developer). AKT Peerless understands the Developer plans to construct a residential development at the subject property.

DWCPA was awarded United States Environmental Protection Agency (USEPA) Brownfield Assessment Grants to conduct environmental assessments of petroleum and hazardous substance sites. This Phase II ESA was conducted as part of the Petroleum Assessment Grant No. 2. The scope of the Phase II ESA was based on:

- USEPA Work Plan, dated December 4, 2006, and approved December 6, 2006.
- Proposals for Environmental Investigation, (AKT Peerless Proposal No. PD-7471, dated November 21, 2006, and approved November 21, 2006).
- The recognized environmental conditions (RECs) identified in Traverse Group's Phase I ESA report, dated May 23, 2006
- The RECs identified in Traverse Group's Phase I ESA report, dated August 20, 2006.
- Traverse Group's Phase II ESA report, dated September 6, 2006.
- Traverse Group's September 2006 BEA report.

This report documents the field activities, sampling protocols, and laboratory analytical results associated with AKT Peerless' Phase II ESA. AKT Peerless' Phase II ESA was performed for the benefit of DWCPA and Nailah, LLC and for future financing entities. AKT Peerless asserts that these parties may rely on the contents and conclusions of this report.

The field activities were performed on December 7, 2006. AKT Peerless' scope of work was based on American Society for Testing and Materials (ASTM) "*Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process E-1903-97*." ASTM E-1903-97 provides a framework for employing good and commercial and customary practices in conducting a Phase II ESA of a property with RECs.

## **2.0 BACKGROUND**

The background information provided in the following sections is based on Traverse Group's May 2006 Phase I ESA and additional information gathered by AKT Peerless.

### **2.1 SUBJECT PROPERTY DESCRIPTION AND FEATURES**

The subject property is located at 710 East Ferry Street and 6431 Hastings Street. The subject property is situated on the southern side of East Ferry Street and the northern side of Hastings Street between St. Antoine Street and Walter P. Chrysler Service Drive in Detroit, Wayne County, Michigan. It consists of two, vacant rectangular-shaped parcels. The subject property is currently vacant land.

### **2.2 PHYSICAL SETTING**

The subject property is located in an area of Detroit that is characterized by residential and commercial development.

### **2.3 HYDROGEOLOGIC SETTING**

The following subsections present the regional geologic setting based on available published information and the local geologic setting based on subsurface work conducted at the subject property.

#### **2.3.1 Topography and Surface Water Drainage**

According to the USGS' *Topographic Map of the Detroit, Michigan Quadrangle*, which was published in 1968 and was photorevised in 1973 and 1980, the subject property is situated approximately 630 feet above the National Geodetic Vertical Datum (NGVD). The subject property's topography appears to decline gently to the south.

#### **2.3.2 Regional Geology and Hydrogeology**

##### Soil

According to the MDNR Geological Survey Division's *Bedrock Geology of Southern Michigan* (1987), bedrock beneath the subject property is classified as Dundee Limestone of the Erian series within the Devonian System of the Paleozoic Era. The depth to bedrock beneath the subject property was not readily available prior to the completion of this Phase I ESA.

According to the Michigan Geological Survey Division's publication, *Quaternary Geology of Southern Michigan*, soil in the area is lacustrine clay and silt. This soil is described as gray to dark reddish brown and is varved in some localities. The soil chiefly underlies extensive, flat, low-lying areas formerly inundated by glacial Great Lakes. Soil thickness ranges from 10 to 30 feet. Typically, lacustrine clay and silt are associated with low hydraulic permeability and restrict the movement of groundwater.

According to the United States Department of Agriculture, *Soil Survey of Wayne County, Michigan*, the soil in the area is classified as the Pewamo-Blount-Metamora association. This soil is described as "nearly level to gently sloping, poorly drained to somewhat poorly drained soils that have a fine-textured to moderately fine-textured subsoil."

The geology encountered during the Phase II investigations is consistent with the geology

described in these publications.

#### Groundwater

Typically, the water table aquifer flows toward a major drainage feature or in the same direction as the drainage basin. The Detroit River, which flows southwest, is located approximately 2.5 miles south of the subject property. Therefore, AKT Peerless infers that groundwater beneath the subject property flows to the east-southeast, with potential influence from the Detroit River. However, man-made cultural features (e.g., utility corridors and filled areas) may influence the groundwater flow direction in older urban environments with shallow groundwater.

Other than the Detroit River, AKT Peerless' research did not identify any known groundwater recharge area on or near the subject property, or any groundwater supply on the subject property. Groundwater from the area of the subject property does not serve as the primary drinking water source for properties in Detroit, which obtains its municipal water from the Detroit Water & Sewerage Department (DWSD). Public sources of information do not identify main aquifers below the subject property.

#### **2.4 SUBJECT PROPERTY HISTORY AND LAND USE**

The following table summarizes the general development and use of the subject property, as identified by Traverse Group.

710 East Ferry Street				
Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1897-1935	None apparent	Vacant	Unknown	Sanborns
1935-1982	Commercial Building	Fuel filling station, tire and repair shop	Unknown	Municipal records Aerial photographs City directories Sanborns
1982-present	None apparent	Vacant	Unknown	Municipal records Aerial photographs City directories Sanborns Site Reconnaissance

6431 Hastings Street				
Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1897-1921	None apparent	Vacant	Unknown	Sanborns
1921-1982	Residential dwelling	Residential	Unknown	Municipal records Aerial photographs City directories Sanborns

6431 Hastings Street				
Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1982-present	None apparent	Vacant	Unknown	Municipal records Aerial photographs City directories Sanborns Site Reconnaissance

## 2.5 ADJACENT PROPERTY HISTORY AND LAND USE

No obvious evidence or indications of recognized environmental conditions or other potential environmental concerns were noted with respect to the adjoining properties during Traverse Group's review of historical information (e.g. city directories, Sanborn maps aerial photographs, city office reviews, etc.) except for (1) the eastern adjoining properties, beyond Hastings Street, contained a warehouse and factory from at least 1919 until the late 1960s, and (2) the southern adjoining properties, beyond East Kirby Street, contained a fueling station from 1950 until 1961.

## 2.6 PREVIOUS ENVIRONMENTAL INVESTIGATION

### 2.6.1 Traverse Group's May 2006 Phase I ESA

On May 23, 2006, Traverse Group completed a Phase I ESA of the subject property on behalf of Nailah, LLC. The purpose of Traverse Group's ESA was to provide appropriate inquiry into the property's history and past uses. The RECs identified by Traverse Group are summarized below.

1. The presence of the filling station at 710 through 714 East Ferry Street from at least 1935 until at least 1982.
2. The presence of soil piles of unknown origin observed during the site reconnaissance.
3. The presence of one, 220-gallon and two, 200-gallon former tanks in the basement of 692 East Ferry Street.
4. The presence of a fueling station indicated on Sanborn fire insurance maps on the south adjacent property.
5. The use of the eastern adjacent property as a factory.

In addition, AKT Peerless identified the following RECs based on review of Traverse Group's May 2006 Phase I ESA and Traverse Group's August 2006 Phase I ESA:

1. The historical use of 6431 Hastings Street, which contained two former dry cleaners (formerly 5421 Hastings Street and 5413 Hastings Street).

### 2.6.2 Traverse Group's September 2006 Phase II ESA

On August 9, 2006, Traverse Group conducted a subsurface investigation of the subject property. The purpose of Traverse Group's investigation was to evaluate the outstanding environmental

concerns identified during Traverse Group's May 2006 Phase I ESA. During the investigation, Traverse Group (1) drilled 5 soil borings (GP-1 through GP-5); (2) collected 7 soil samples, (3) collected 1 composite soil mound sample (soil pile); and (4) submitted soil samples for laboratory analyses.

#### Laboratory Analyses

Soil samples were submitted for analyses of select parameters including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), Michigan metals<sup>1</sup>, and polychlorinated biphenyls (PCBs). See Figure 2 for a site map with soil boring locations.

#### Results

According to Traverse Group, the laboratory analytical results of soil samples indicated the presence of xylenes, arsenic, chromium (total), mercury, selenium, silver, benzo (a) pyrene, fluoranthene, and phenanthrene at concentrations exceeding MDEQ Generic Residential Cleanup Criteria (GRCC). No other parameters were indicated above MDEQ GRCC.

#### Conclusion

Based on the laboratory results, Traverse Group concluded that the subject property does meet the definition of a "facility", as defined in Part 201 of NREPA, Michigan PA 451, 1994, as amended.

Based on AKT Peerless' review of Traverse Group's environmental assessments, additional investigation is necessary to (1) evaluate the most likely source of contamination and (2) evaluate the extent of previously identified contamination. In addition, AKT Peerless recommends conducting a geophysical survey of the subject property to evaluate the potential for abandoned USTs.

### **2.6.3 Traverse Group's September 2006 BEA**

Nailah, LLC, retained Traverse Group to prepare a Category N BEA for 658, 676, 692 through 696, 702 through 704 and 710 through 714 East Ferry Street, 663, 671, 681, and 701 East Kirby Street, and 6431 Hastings Street. The BEA was disclosed to the MDEQ. The purpose of the BEA was to seek statutory protection from liability for environmental response costs associated with environmental contamination existing at the subject property pursuant to Section 20126(1)(c) of 1994 Public Act 451, Part 201, as amended.

## **3.0 INVESTIGATION ACTIVITIES**

### **3.1 SCOPE OF ASSESSMENT**

AKT Peerless conducted a subsurface investigation to further evaluate the contaminants and outstanding environmental concerns identified during a review of Traverse Group's investigation. AKT Peerless' subsurface investigation included: (1) completing a geophysical survey of 710 East Ferry Street, (2) drilling 6 soil borings (B-6-06 through B-12-06), (3) installing 1 temporary groundwater monitoring well, (4) collecting 11 soil samples and 1 groundwater sample, and (5) submitting the samples for laboratory analysis. Samples were

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<sup>1</sup> Michigan Metals include arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.

submitted for select laboratory analysis including VOCs, polynuclear aromatic hydrocarbons (PNAs), leaded gasoline parameters<sup>2</sup>, Michigan metals and/or waste oil parameters<sup>3</sup>.

### 3.2 GEOPHYSICAL SURVEY

AKT Peerless retained Geophysical Imaging, Inc. (GII) to conduct a geophysical survey of 710 East Ferry Street. In December 2006, GII conducted an electromagnetic induction (EM) and ground penetrating radar (GPR) survey to evaluate whether USTs are present beneath the subject property. The results of the GPR survey indicated three strong metal anomalies on the subject property. According to GII it is possible these anomalies are indicative of a UST system (i.e. possible USTs, former dispensers). A copy of the geophysical survey report is included as Appendix C.

### 3.3 SUBSURFACE INVESTIGATION

The following table summarizes each outstanding environmental concern and the subsurface investigation activities performed to address each REC.

**Summary of AKT Peerless' Scope of Subsurface Investigation**

REC #	Environmental Concern	Investigation Activity
1	Former Filling Station with potential abandoned USTs	B-6-06 through B-8-06 and geophysical survey
2	Extent of contamination, anomalies, and former adjoining factory	B-7-06 through B-10-06
3	Former dry cleaner and extent of contamination	B-10-06 and B-11-06
4	Former adjoining filling station and extent of contamination	B-12-06

\* Since previous borings GP-1 through GP-5 were drilled at the subject property, AKT Peerless began soil borings at B-6-06

#### 3.3.1 Soil Evaluation

On December 12, 2006, AKT Peerless retained Fibertec Environmental Services. (Fibertec) of Brighton, Michigan to drill six soil borings at the subject property. Fibertec used hydraulic drive/direct-push (Geoprobe<sup>®</sup>) sampling techniques and followed the drilling procedures outlined in ASTM publication ASTM D-4700. Fibertec collected continuous soil samples from the soil borings at five-foot intervals to the maximum depth explored of 19 feet below ground surface (bgs). AKT Peerless personnel inspected, field-screened, and logged the samples collected at each soil boring location. The following table summarizes soil boring locations and soil samples submitted for laboratory analyses.

<sup>2</sup> Leaded gasoline parameters include benzene, toluene, ethylbenzene, trimethylbenzene isomers (TMBs), 1,2-Dibromoethane (EDB), 1,2-Dichloroethane (DCA), naphthalene, 2-methylnaphthalene, and lead.

<sup>3</sup> Waste oil parameters include benzene, toluene, ethylbenzene, xylenes, TMBs, EDB, DCA, PNAs, cadmium, chromium, lead, and volatile halocarbons.

### Summary of Soil Sample Collection

Soil Boring Location	Soil Boring Location	Samples Submitted To Laboratory (in feet bgs)	Analytical Parameters
B-6-06	Near former filling station (710 East Ferry Street)	B-6-06 (0-0.5') B-6-06 (3-5')	Used motor oil parameters
B-7-06	Near former filling station (710 East Ferry Street)	B-7-06 (7-9)	PNAs and leaded gasoline parameters
B-8-06	Near former filling station (710 East Ferry Street)	B-8-06 (7-9') B-8-06 (10-12')	PNAs and leaded gasoline parameters
B-9-06	Eastern property boundary (710 East Ferry Street)	B-9-06 (6-8')	VOCs, PNAs, and Michigan metals
B-10-06	Near former dry cleaner (6431 Hastings Street)	B-10-06 (3-5')	VOCs and PNAs
		B-10-06 (6-8')	VOCs, PNAs, and Michigan metals
B-11-06	Near former dry cleaner (6431 Hastings Street)	B-11-06 (2-4')	VOCs
B-12-06	Southern property boundary (6431 Hastings Street)	B-12-06 (7-9')	PNAs and leaded gasoline parameters

Refer to Figure 2 for a site map with soil boring locations.

#### 3.3.2 Groundwater Evaluation

AKT Peerless encountered groundwater in soil boring B-7-06. Groundwater was encountered at a depth of approximately nine feet below ground surface. AKT Peerless instructed Fibertec to install a temporary groundwater monitoring well in this boring location. The following table summarizes the temporary groundwater monitoring well location and the groundwater sample submitted for laboratory analyses.

### Summary of Groundwater Sample Collection

Monitor Well Location	Monitor Well Location On Subject Property	Samples Submitted To Laboratory	Analytical Parameters
B-7-06	Near former filling station (710 East Ferry Street)	B-7-06W	PNAs and leaded gasoline parameters

Refer to Figure 2 for a site map with temporary monitor well locations.

#### 3.4 QUALITY ASSURANCE/QUALITY CONTROL

To ensure the accuracy of data collected during on site activities, AKT Peerless implemented proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to, (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, and (4) appropriate sample preservation techniques, and (5) collection of QAQC evaluation samples. AKT Peerless performed a qualitative evaluation of all samples collected during drilling, and a

quantitative analysis of discrete samples using approved laboratory analytical methods.

### **3.4.1 Decontamination of Equipment**

During sample collection, AKT Peerless and Fibertec adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent;
- Rinsing the equipment with tap water; and
- Air-drying the equipment.

### **3.4.2 Calibration of Field Equipment**

During AKT Peerless' Phase II ESA, a photoionization detector (PID) was used to screen all soil samples. The PID was maintained in a calibrated condition using 100-ppm isobutylene gas prior to conducting the Phase II ESA.

### **3.4.3 Documentation of Activities**

During AKT Peerless' Phase II ESA activities, subject property conditions (i.e. soil boring locations, weather conditions) were documented. AKT Peerless visually inspected the soil samples and prepared a geologic log for each soil boring. The logs included soil characteristics such as (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture and/or water table depth, and (4) signs of possible contamination. All samples were delivered to the laboratory under chain-of-custody documentation. See Appendix A for AKT Peerless' soil boring logs.

### **3.4.4 Sample Preservation Techniques**

AKT Peerless collected samples in accordance with United States Environmental Protection Agency's (USEPA) Publication SW-846, "*Testing Methods for Evaluating Solid Waste*." Samples were collected in laboratory-supplied containers, properly preserved, stored on ice, and submitted under chain-of-custody documentation to the laboratory.

### **3.4.5 QA/QC Samples**

During AKT Peerless' Phase II activities, AKT Peerless field personnel strictly followed quality control measures through the use of replicate measurements, equipment calibration checks, and data verification. Field sampling precision and data quality were evaluated through the use of sample duplicates, equipment blanks, VOA trip blanks and bottle blanks. Sample duplicates provide precision information regarding homogeneity, handling, transportation, storage, and analyses. Equipment (rinsate) blanks will be used to assure that proper decontamination procedures have been performed and that no cross-contamination has occurred during sampling or transportation. VOA trip blanks will be used to assure that transportation of samples have not contaminated samples. Bottle blanks will be used to ensure that containers utilized to collect samples were free of contaminants.

## **3.5 LABORATORY ANALYSES AND METHODS**

AKT Peerless submitted 15 soil sample and 6 groundwater samples for laboratory analyses. The following table summarizes the samples submitted for laboratory analysis, and their respective

chemical analyses.

### Summary of Laboratory Analyses

Sample Origin	Sample Name	VOCs	PNAs	Michigan Metals	Used Motor Oil	Leaded gasoline
B-6-06	B-6-06 (0-0.5')				<input checked="" type="checkbox"/>	
	B-6-06 (3-5')				<input checked="" type="checkbox"/>	
B-7-06	B-7-06 (7-9')		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	B-7-06W		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
B-8-06	B-8-06 (7-9')		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	B-8-06 (10-12')		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
B-9-06	B-9-06 (6-8')	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
B-10-06	B-10-06 (3-5')	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	B-10-06 (6-8')	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
B-11-06	B-11-06 (2-4')	<input checked="" type="checkbox"/>				
B-12-06	B-12-06 (7-9')		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

The laboratory analyzed the samples for: (1) VOCs in accordance with USEPA Method 5035/8260; (2) PNAs in accordance with USEPA Method 3550B/8270C; and (3) metals in accordance with USEPA Method 6020, 7470/7471.

## 4.0 LOCAL GEOLOGY/HYDROGEOLOGY

### 4.1 LOCAL GEOLOGY

During drilling activities, AKT Peerless encountered the following general soil conditions:

- **FILL:** in some soil boring locations from just below the ground surface to varying depths between 2.5 and 10 feet bgs. The fill consisted of brown clay with masonry debris and sand and gravel located in some of the borings.
- **CLAY:** in all soil boring locations at depths varying from just below the ground surface to 19 feet bgs, the maximum explored depth. This clay was dry, brown to grey in color, medium-stiff to stiff, occasionally mottled, and contained trace gravel in some of the borings.

Other than the fill material, the geology encountered during this Phase II ESA is consistent with the geology described in the publications noted in Section 2.3.2. Soil boring logs are included as Appendix A.

### 4.2 LOCAL HYDROGEOLOGY

During drilling activities, AKT Peerless encountered groundwater in one of the six soil borings drilled at the subject property. Groundwater was encountered in fill at an approximate depth of nine feet bgs. Based on conditions encountered during this investigation, shallow groundwater conditions typically consisted of shallow, perched groundwater encountered in fill material above native clay. AKT Peerless was unable to determine groundwater flow direction based on

this investigation.

## **5.0    RESULTS OF LABORATORY ANALYSIS**

### **5.1    RELEVANT EXPOSURE PATHWAYS**

As defined in Michigan Public Act 451 Part 201, “relevant pathway” means an exposure pathway that is reasonable and relevant because there is a reasonable potential for human exposure to a hazardous substance. Applicable criterion means a cleanup criterion for a relevant pathway. A criterion is not an applicable criterion if the exposure pathway is not a relevant pathway at the property.

The analysis of potential exposure pathways is based on existing conditions at the subject property.

#### **5.1.1    Soil Exposure Pathways**

The following subsections describe the potential soil exposure pathways, and evaluate hazardous substances in light of the applicable criteria.

##### Drinking Water Protection Criteria

Groundwater was encountered in one of the six soil borings drilled at the subject property. This groundwater was encountered in fill material above native clay. The groundwater is hydraulically discontinuous, and the saturated thickness of the groundwater was less than two feet. Therefore, the groundwater at the subject property does not meet the definition of “groundwater in an aquifer”. In addition, the City of Detroit prohibits well installation and provides municipal drinking water service. Therefore, ingestion of groundwater at the subject property is not a relevant exposure pathway.

##### Groundwater Surface Water Interface Protection Criteria

Groundwater Surface Water Interface Protection Criteria is not a human exposure pathway. In addition, the City of Detroit is on a combined sewer system, and the nearest surface water is the Detroit River, located 2.5 miles south of the subject property. The groundwater surface water migration pathway is not complete; therefore, the pathway is not relevant.

##### Groundwater Contact Protection Criteria

Groundwater was encountered in one of the six soil borings drilled at the subject property. The groundwater is perched and hydraulically discontinuous and does not appear to be a useable aquifer. Groundwater contact is not a complete exposure pathway given the limited volume of water encountered, therefore, the exposure pathway is not relevant.

##### Soil Volatilization to Indoor Air Inhalation Criteria

Soil Volatilization to Indoor Air Inhalation is a relevant exposure pathway.

##### Infinite Source Volatile Soil Inhalation Criteria

Infinite Source Volatile Soil Inhalation is a relevant exposure pathway.

##### Particulate Soil Inhalation Criteria

Particulate Soil Inhalation is a relevant exposure pathway.

#### Soil Direct Contact Criteria

Soil Direct Contact is a relevant exposure pathway.

#### **5.1.2 Groundwater Exposure Pathways**

The following subsections describe the potential groundwater exposure pathways, and evaluate hazardous substances in light of the applicable criteria.

##### Drinking Water Criteria

Groundwater was encountered in one of the six soil borings drilled at the subject property (B-7-06). This groundwater was encountered in fill material above native clay. The groundwater is hydraulically discontinuous, and the saturated thickness of the groundwater was less than two feet. Therefore, the groundwater at the subject property does not meet the definition of “groundwater in an aquifer”. In addition, the City of Detroit prohibits well installation and provides municipal drinking water service. Therefore, ingestion of groundwater at the subject property is not a relevant exposure pathway.

##### Groundwater Surface Water Interface Criteria

Groundwater Surface Water Interface Protection Criteria is not a human exposure pathway. In addition, the nearest surface water is the Detroit River, located 2.5 miles south of the subject property. Therefore migration to a surface water body is not a complete exposure pathway. Therefore, the groundwater surface water pathway is not relevant at the subject property.

##### Groundwater Volatilization to Indoor Air Inhalation Criteria

Groundwater Volatilization to Indoor Air Inhalation is a relevant exposure pathway.

##### Groundwater Contact Criteria

Groundwater Contact is a relevant exposure pathway.

#### **5.2 APPLICABLE CRITERIA**

AKT Peerless compared the laboratory analytical data to the applicable Part 201 Generic Residential Cleanup Criteria (GRCC) as published by the Remediation and Redevelopment Division (RRD) of the Michigan Department of Environmental Quality (MDEQ). The relevant exposure pathways at the subject property include:

- Soil Volatilization to Indoor Air Inhalation (SVIAI)/Groundwater Volatilization to Indoor Air Inhalation (GVIAI);
- Infinite Source Volatile Soil Inhalation (VSIC);
- Particulate Soil Inhalation (PSI), and;
- Soil Direct Contact (DC)/Groundwater Contact (GC).

#### **5.3 SOIL ANALYTICAL RESULTS**

AKT Peerless submitted 10 soil samples for laboratory analysis. The laboratory analytical results indicate that no parameters were detected at concentrations above applicable MDEQ GRCC. Refer to Table 1 for a summary of soil analytical results. Refer to Appendix B for a complete analytical laboratory report.

## 5.4 GROUNDWATER ANALYTICAL RESULTS

AKT Peerless submitted one groundwater samples for laboratory analysis. The laboratory analytical results indicate that no parameters were detected at concentrations above applicable MDEQ GRCC. Refer to Table 2 for a summary of groundwater analytical results. Refer to Appendix B for a complete analytical laboratory report.

## 6.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

### 6.1 SUMMARY OF SUBSURFACE INVESTIGATION

In December 2006, AKT Peerless: (1) completed a geophysical survey of 710 East Ferry Street; (2) drilled 6 soil borings, (3) installed 1 temporary groundwater monitoring wells, (4) collected 10 soil samples and 1 groundwater samples, and (5) submitted samples for laboratory analysis. Samples were submitted for select laboratory analysis including VOCs, PNAs, Michigan metals, leaded gasoline parameters, and/or used oil parameters.

### 6.2 CONCLUSIONS

Based on laboratory analytical results, no parameters were detected at concentrations above applicable MDEQ GRCC. However, previous investigations indicate that the subject property meets the definition of a “facility” as defined in Part 201 of NREPA, Michigan PA 451, 1994, as amended. Further, the results of the GPR survey indicated three anomalies were detected beneath 710 East Ferry Street.

### 6.3 RECOMMENDATIONS

According to previous environmental investigations conducted on the property the subject property meets the definition of a “facility”. AKT Peerless understands that the City of Detroit (the current property owner) plans to take appropriate action to remediate the subject property. AKT Peerless recommends conducting test pit excavations to evaluate the extent of fill material, visual contamination, and the anomalies identified during the geophysical investigation.

## 7.0 LIMITATIONS

The information and opinions obtained in this report are for the exclusive use of DWCPA and Nailah, LLC and for future financing entities. No distribution to, or reliance by, other parties may not occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without the written consent of DWCPA or Nailah, LLC, or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and DWCPA.

## 8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

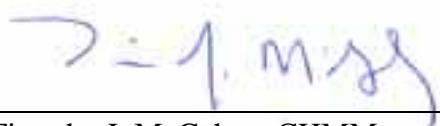
The following individuals contributed to the completion of this Phase II ESA.



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AKT PEERLESS ENVIRONMENTAL SERVICES  
Detroit, Michigan Office

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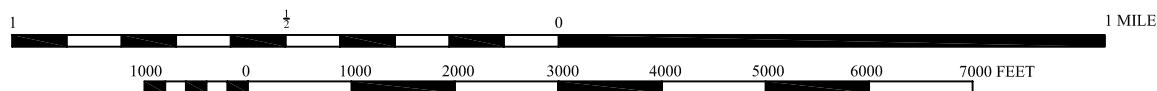
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## **FIGURES**

*DETROIT QUADRANGLE*  
MICHIGAN - WAYNE COUNTY  
7.5 MINUTE SERIES (TOPOGRAPHIC)



CONTOUR INTERVAL 5 FEET  
DATUM IS MEAN SEA LEVEL



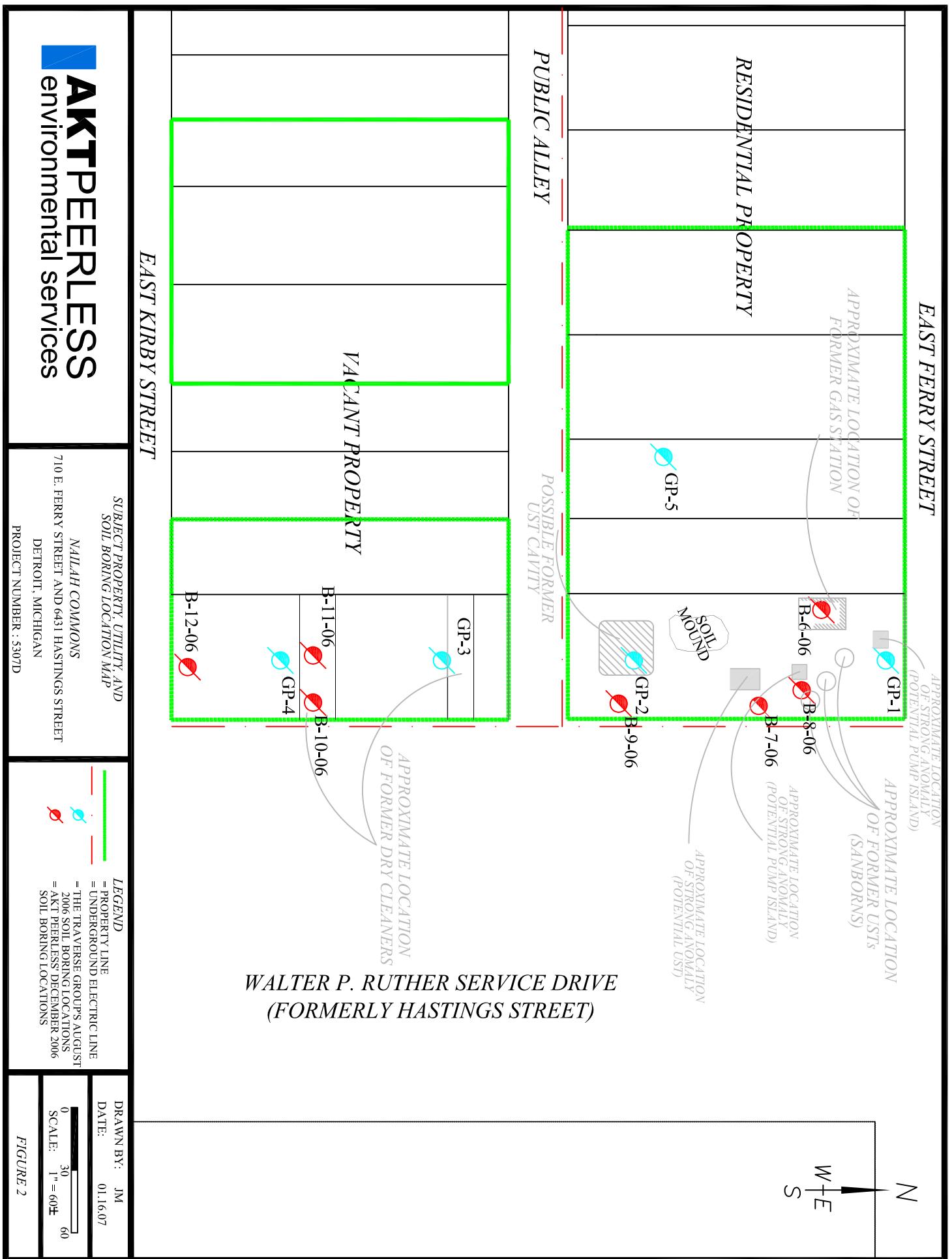
IMAGE TAKEN FROM 1968 U.S.G.S. TOPOGRAPHIC MAP  
PHOTOREVISED 1973 AND 1980

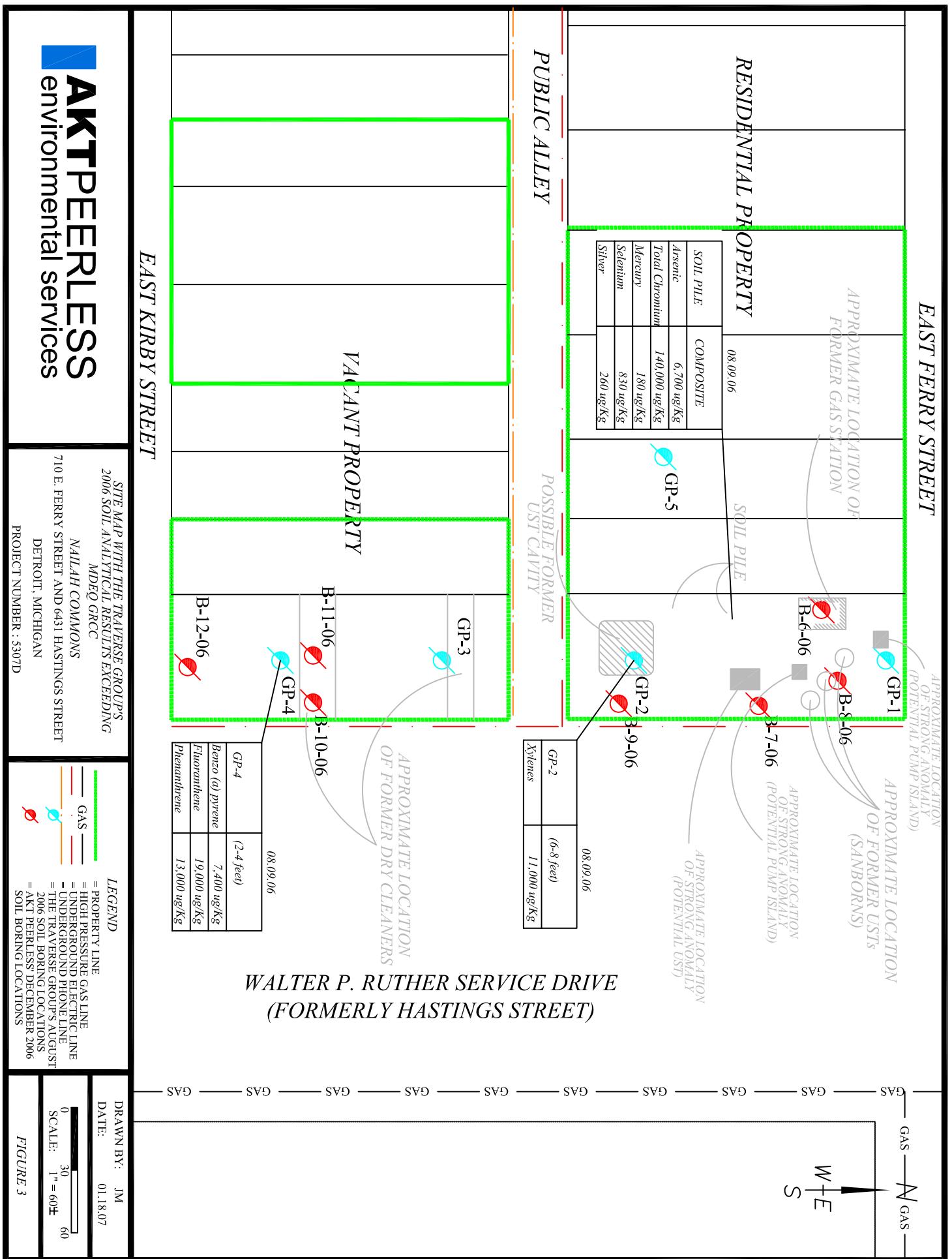
**AKTPEERLESS**  
environmental services

*TOPOGRAPHIC LOCATION MAP*  
NAILAH COMMONS  
EAST FERRY STREET AND HASTINGS STREET  
DETROIT, MICHIGAN  
PROJECT NUMBER : 5307D-2-20

DRAWN BY: JM  
DATE: 01.16.07

*FIGURE 1*





## **TABLES**

**Table 1**  
**Summary of Soil Analytical Results**

Sample Identification and Date		Statewide Default Background Levels	Groundwater Protection			Indoor Air	Ambient Air (Y)		Direct Contact	Groundwater Protection				B-6-06 (0-0.5) 12/12/2006	B-6-06 (3-5) 12/12/2006	B-7-06 (7-9) 12/12/2006	B-8-06 (7-9) 12/12/2006	B-8-06 (10-12) 12/12/2006	B-9-06 (6-8) 12/12/2006	B-10-06 (3-5) 12/12/2006	B-10-06 (6-8) 12/12/2006	B-11-06 (2-4) 12/12/2006	B-12-06 (3-5) 12/12/2006	B-12-06 (7-9) 12/12/2006
			Residential and Commercial I Drinking Water Protection Criteria & RBSLs	Residential and Commercial I Groundwater Surface Water Interface Protection Criteria & RBSLs	Residential and Commercial I Groundwater Contact Protection Criteria & RBSLs		Residential and Commercial I Soil Volatilization to Indoor Air Inhalation Criteria & RBSLs	Residential and Commercial I Infinite Source Volatile Soil Inhalation Criteria (VSIC) & RBSLs		Residential and Commercial I Particulate Soil Inhalation Criteria & RBSLs	Residential and Commercial I Direct Contact Criteria & RBSLs	Residential Drinking Water Protection Criteria & RBSLs	Industrial and Commercial Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Contact Protection Criteria & RBSLs									
Analytes	CAS#																							
<b>Volatile Organic Compounds (VOCs) (ug/Kg)</b>																								
Benzene (I)	71432	NA	100	4,000 (X)	2.2E+5	1,600	13,000	3.8E+8	1.8E+5	100	100	4,000 (X)	2.2E+5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	
Ethylbenzene (I)	100414	NA	1,500	360	1.4E+5 (C)	87,000	7.2E+5	1.0E+10	1.4E+5 (C)	1,500	1,500	360	1.4E+5 (C)	ND	ND	ND	ND	ND	ND	ND	NA	ND		
Toluene (I)	108883	NA	16,000	2,800	2.5E+5 (C)	2.5E+5 (C)	2.8E+6	2.7E+10	2.5E+5 (C)	16,000	16,000	2,800	2.5E+5 (C)	ND	78	ND	ND	ND	ND	ND	NA	ND		
1,2,4-Trimethylbenzene (I)	95636	NA	2,100	570	1.1E+5 (C)	1.1E+5 (C)	2.1E+7	8.2E+10	1.1E+5 (C)	2,100	2,100	570	1.1E+5 (C)	ND	ND	ND	ND	ND	ND	ND	NA	ND		
1,3,5-Trimethylbenzene (I)	108678	NA	1,800	1,100	94,000 (C)	94,000 (C)	1.6E+7	8.2E+10	94,000 (C)	1,800	1,800	1,100	94,000 (C)	ND	ND	ND	ND	ND	ND	ND	NA	ND		
Xylenes (I)	1330207	NA	5,600	700	1.5E+5 (C)	1.5E+5 (C)	4.6E+7	2.9E+11	1.5E+5 (C)	5,600	5,600	700	1.5E+5 (C)	ND	ND	ND	ND	ND	ND	ND	NA	ND		
Remaining VOCs	Varies	-	-	-	-	-	-	-	-	-	-	-	-	ND/NA	ND/NA	NA/ND	NA/ND	NA/ND	ND	ND	ND	NA	NA/ND	
<b>Polynuclear Aromatic Hydrocarbons (PNAs) (ug/Kg)</b>																								
Acenaphthene	83329	NA	3.0E+5	4,400	9.7E+5	1.9E+8	8.1E+7	1.4E+10	4.1E+7	3.0E+5	8.8E+5	4,400	9.7E+5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Acenaphthylene	208968	NA	5,900	ID	4.4E+5	1.6E+6	2.2E+6	2.3E+9	1.6E+6	5,900	17,000	ID	4.4E+5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Anthracene	120127	NA	41,000	ID	41,000	1.0E+9 (D)	1.4E+9	6.7E+10	2.3E+8	41,000	41,000	ID	41,000	ND	ND	ND	ND	ND	ND	ND	510	ND		
Benzo(a)anthracene (Q)	56553	NA	NLL	NLL	NLV	NLV	ID	20,000	NLL	NLL	NLL	NLL	430	ND	ND	ND	ND	ND	ND	ND	1,600	ND		
Benzo(a)pyrene (Q)	50328	NA	NLL	NLL	NLV	NLV	1.5E+6	2,000	NLL	NLL	NLL	NLL	390	ND	ND	ND	ND	ND	ND	ND	1,400	ND		
Benzo(b)fluoranthene (Q)	205992	NA	NLL	NLL	ID	ID	ID	20,000	NLL	NLL	NLL	NLL	500	380	ND	ND	ND	ND	ND	ND	ND	1,600	ND	
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NLV	8.0E+8	2.5E+6	NLL	NLL	NLL	NLL	ND	ND	ND	ND	ND	ND	ND	ND	800	ND		
Benzo(k)fluoranthene (Q)	207089	NA	NLL	NLL	NLV	NLV	ID	2.0E+5	NLL	NLL	NLL	NLL	ND	ND	ND	ND	ND	ND	ND	ND	720	ND		
Chrysene (Q)	218019	NA	NLL	NLL	NLL	ID	ID	2.0E+6	NLL	NLL	NLL	NLL	490	350	ND	ND	ND	ND	ND	ND	ND	1,400	ND	
Dibenzo(a,h)anthracene (Q)	53703	NA	NLL	NLL	NLL	NLV	NLV	ID	2,000	NLL	NLL	NLL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Fluoranthene	206440	NA	7.3E+5	5,500	7.3E+5	1.0E+9 (D)	7.4E+8	9.3E+9	4.6E+7	7.3E+5	7.3E+5	5,500	7.3E+5	930	780	ND	ND	ND	ND	ND	ND	3,400	ND	
Fluorene	86737	NA	3.9E+5	5,300	8.9E+5	5.8E+8	1.3E+8	9.3E+9	2.7E+7	3.9E+5	8.9E+5	5,300	8.9E+5	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Indeno(1,2,3-cd)pyrene (Q)	193395	NA	NLL	NLL	NLV	NLV	ID	20,000	NLL	NLL	NLL	NLL	ND	ND	ND	ND	ND	ND	ND	ND	ND	880	ND	
2-Methylnaphthalene	91576	NA	57,000	ID	5.5E+6	ID	ID	8.1E+6	57,000	1.7E+5	ID	5.5E+6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Naphthalene	91203	NA	35,000	870	2.1E+6	2.5E+5	3.0E+5	2.0E+8	1.6E+7	35,000	1.0E+5	870	2.1E+6	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Phenanthrene	85018	NA	56,000	5,300	1.1E+6	2.8E+6	1.6E+5	6.7E+6	1.6E+6	56,000	1.6E+5	5,300	1.1E+6	720	790	ND	ND	ND	ND	ND	ND	2,100	ND	
Pyrene	129000	NA	4.8E+5	ID	4.8E+5	1.0E+9 (D)	6.5E+8	6.7E+9	2.9E+7	4.8E+5	4.8E+5	ID	4.8E+5	890	600	ND	ND	ND	ND	ND	ND	2,700	ND	
<b>Total Metals Analysis (ug/Kg)</b>																								
Arsenic	7440382	5,800	4,600	70,000 (X)	2.0E+6	NLV	NLV	7.2E+5	7,600	4,600	4,600	70,000 (X)	2.0E+6	NA	NA	NA	NA	NA	7,300	NA	5,500	NA	NA	
Barium (B)	7440393	75,000	1.3E+6	(G,X)	1.0E+9 (D)	NLV	NLV	3.3E+8	3.7E+7	1.3E+6	1.3E+6	(G,X)	1.0E+9 (D)	NA	NA	NA	NA	NA	52,000	NA	65,000	NA	NA	
Cadmium (B)	7440439	1,200	6,000	(G,X)	2.3E+8	NLV	NLV	1.7E+6	5.5E+5	6,000	6,000	(G,X)	2.3E+8	910	330	NA	NA	NA	180	NA	200	NA	NA	
Chromium (total) (B,H)	16065831	18,000 (total)	1.0E+9 (D)	(G,X)	1.0E+9 (D)	NLV	NLV	3.3E+8	7.9E+8	1.0E+9 (D)	1.0E+9 (D)	(G,X)	1.0E+9 (D)	19,000	15,000	NA	NA	NA	16,000	NA	15,000	NA	NA	
Copper (B)	7440508	32,000	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	1.3E+8	2.0E+7	5.8E+6	5.8E+6	(G)	1.0E+9 (D)	NA	NA	NA	NA	NA	17,000	NA	15,000	NA	NA	
Lead (B)	7439921	21,000	7.0E+5	(G,X)	ID	NLV	NLV	1.0E+8	4.0E+5	7.0E+5	7.0E+5	(G,X)	ID	250,000	110,000	73,000	8,000	9,100	9,500	NA	9,200	NA	9,000	
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	47,000	48,000	52,000	2.0E+7	1.6E+5	1,700	1,700	50 (M); 1.2	47,000	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	
Selenium (B)	7782492	410	4,000	400	7.8E+7	NLV	NLV	1.3E+8	2.6E+6	4,000	4,000	400	7.8E+7	NA	NA	NA	NA	NA	NA	NA	330	NA	NA	
Silver (B)	7440224	1,000	4,500	100 (M); 27	2.0E+8	NLV	NLV	6.7E+6	2.5E+6	4,500	13,000	100 (M); 27	2.0E+8	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	
Zinc (B)	7440666	47,000	2.4E+6	(G)	1.0E+9 (D)	NLV	NLV	ID	1.7E+8	2.4E+6	5.0E+6	(G)	1.0E+9 (D)	NA	NA	NA	NA	NA	46,000	NA	46,000	NA	NA	

## Notes

B - Background, as defined in R 299.5701(b), may be substituted if higher than the calculated cleanup criterion.

C - Value presented is a screening level based on the chemical-specific generic soil saturation concentration ( $C_{sat}$ ) since the calculated risk-based criterion is greater than  $C_{sat}$ .

D = Calculated criterion exceeds 100%, hence it is reduced to 100% or 1.0E+9 ppb.

G - Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water

II. Values specific chromium data ( $Cm\text{-III}$  and  $Cm\text{-VI}$ ) shall be compared to the corresponding values specific cleanup criteria.

H - Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria.

I - Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. Section 261.21 (revised as of July 1, 2001), which is adopted by reference in these rules and which is available for inspection.

M - Calculated criterion is below the analyticals target detection limit, therefore, the criterion defaults to the target detect

Q - Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.

X - The groundwater surface water interface (GSI) criterion shown in the gene

ID - Insufficient data to develop criterion.

NA - Criterion or value is not available or, in the case of background and chem

## NLL - Hazardous subst:

NLV - Hazardous substance is not likely to v

ND - Non-detect

$\mu\text{g/Kg}$  - micrograms per Kilogram

**Table 2**  
**Summary of Groundwater Analytical Results**  
 Nailah Commons  
 Ferry Street and Hastings Street  
 Detroit, Michigan  
 AKT Peerless Project Number  
 5307d-2-20

Sample Identification and Date		Residential & Commercial I Drinking Water Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Residential & Commercial I Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Industrial & Commercial II, III & IV Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	B-7W						
<b>Analytes</b>													
<b>Volatile Organic Compounds (VOCs) (ug/L)</b>													
Benzene (I)	71432	5.0 (A)	200 (X)	5,600	35,000	11,000	ND						
Ethylbenzene (I)	100414	74 (E)	18	1.1E+5	1.7E+5 (S)	1.7E+5 (S)	ND						
Toluene (I)	108883	790 (E)	140	5.3E+5 (S)	5.3E+5 (S)	5.3E+5 (S)	ND						
1,2,4-Trimethylbenzene (I)	95636	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	ND						
1,3,5-Trimethylbenzene (I)	108678	72 (E)	45	61,000 (S)	61,000 (S)	61,000 (S)	ND						
Xylenes (I)	1330207	280 (E)	35	1.9E+5 (S)	1.9E+5 (S)	1.9E+5 (S)	ND						
Remaining VOCs	-	-	-	-	-	-	ND/NA						
<b>Polynuclear Aromatic Hydrocarbons (PNAs) (ug/L)</b>													
Acenaphthene	83329	1,300	19	4,200 (S)	4,200 (S)	4,200 (S)	ND						
Acenaphthylene	208968	52	ID	3,900 (S)	3,900 (S)	3,900 (S)	ND						
Anthracene	120127	43 (S)	ID	43 (S)	43 (S)	43 (S)	ND						
Benzo(a)anthracene (Q)	56553	2.1	ID	NLV	NLV	9.4 (S.AA)	ND						
Benzo(b)fluoranthene (Q)	205992	1.5 (S, AA)	ID	ID	ID	1.5 (S.AA)	ND						
Benzo(k)fluoranthene (Q)	207089	1.0 (M); 0.8 (S)	NA	NLV	NLV	1.0 (M.AA); 0.8 (S)	ND						
Benzo(g,h,i)perylene	191242	1.0 (M); 0.26 (S)	NA	NLV	NLV	1.0 (M.AA); 0.26 (S)	ND						
Benzo(a)pyrene (Q)	50528	5.0 (A)	ID	NLV	NLV	1.0 (M.AA); 0.64	ND						
Chrysene (Q)	218019	1.6 (S)	ID	ID	ID	1.6 (S.AA)	ND						
Dibenz(a,h)anthracene (Q)	53703	2.0 (M); 0.21	ID	NLV	NLV	2.0 (M.AA); 0.31	ND						
Fluoranthene	206440	210 (S)	1.6	210 (S)	210 (S)	210 (S)	ND						
Fluorene	86737	880	12	2,000 (S)	2,000 (S)	2,000 (S)	ND						
Indeno(1,2,3-cd)pyrene (Q)	193395	2.0 (M); 0.022 (S)	ID	NLV	NLV	2.0 (M, AA); 0.022 (S)	ND						
2-Methylnaphthalene	91576	260	ID	ID	ID	25,000 (S)	ND						
Phenanthrene	85018	52	2.4	1,000 (S)	1,000 (S)	1,000 (S)	ND						
Pyrene	129000	140 (S)	ID	140 (S)	140 (S)	140 (S)	ND						
<b>Total Metals Analysis (ug/Kg)</b>													
Arsenic	7440382	10 (A)	150 (X)	NLV	NLV	4,300	NA						
Barium (B)	7440393	2,000 (A)	(G,X)	NLV	NLV	1.4E+7	NA						
Cadmium (B)	7440439	5.0 (A)	(G,X)	NLV	NLV	1.9E+5	NA						
Chromium (III) (B,H)	16065831	100 (A)	(G,X)	NLV	NLV	2.9E+8	NA						
Copper (B)	7440508	1,000 (E)	(G)	NLV	NLV	7.4E+6	NA						
Lead (B)	7439921	<b>4.0 (L)</b>	(G,X)	NLV	NLV	ID	<b>48</b>						
Mercury (Total) (B,Z)	Varies	2.0 (A)	0.0013	56 (S)	56 (S)	56 (S)	NA						
Silver (B)	7440224	34	0.2 (M); 0.06	NLV	NLV	1.5E+6	NA						
Zinc (B)	7440666	2,400	(G)	NLV	NLV	1.1E+8	NA						

A - Criterion is the state of Michigan drinking water standard established pursuant to section 5 of 1976 PA 399, MCL 325.1005.

B - Background, as defined in R 299.5701(b), may be substituted if higher than the calculated cleanup criterion.

G - Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water.

H - Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria.

I - Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. Section 261.21 (revised as of July 1, 2001), which is adopted by reference at the Lansing office of the department, 525 West Allegan Street, Lansing, Michigan.

L - Criteria for lead are derived using a biologically based model, as allowed for under section 2012a(10) of the act, and are not calculated using the algorithms as.

M - Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

Q - Criterion for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.

S - Criterion defaults to the hazardous substance-specific water solubility limit.

Z - Mercury is typically measured as total mercury.

AA - Comparison to these criteria may take into account an evaluation of whether the hazardous substances are absorbed to particulates rather than dissolved in water.

ID - Insufficient data to develop criterion.

NLV - Hazardous substance is not likely to volatilize under most conditions.

ND - Non-detect

mg/Kg - micrograms per Kilogram

**bold - Parameter exceeds indicated criterion**

**APPENDIX A**  
**SOIL BORING LOGS**



607 Shelby Street, Suite 900, Detroit, MI 48226  
Phone: (313) 962-9353 Fax: (313) 962-0966

BORING LOG

Nailah Commons

710-714 E. Ferry and 6431 E Kirby Streets

Detroit, Michigan

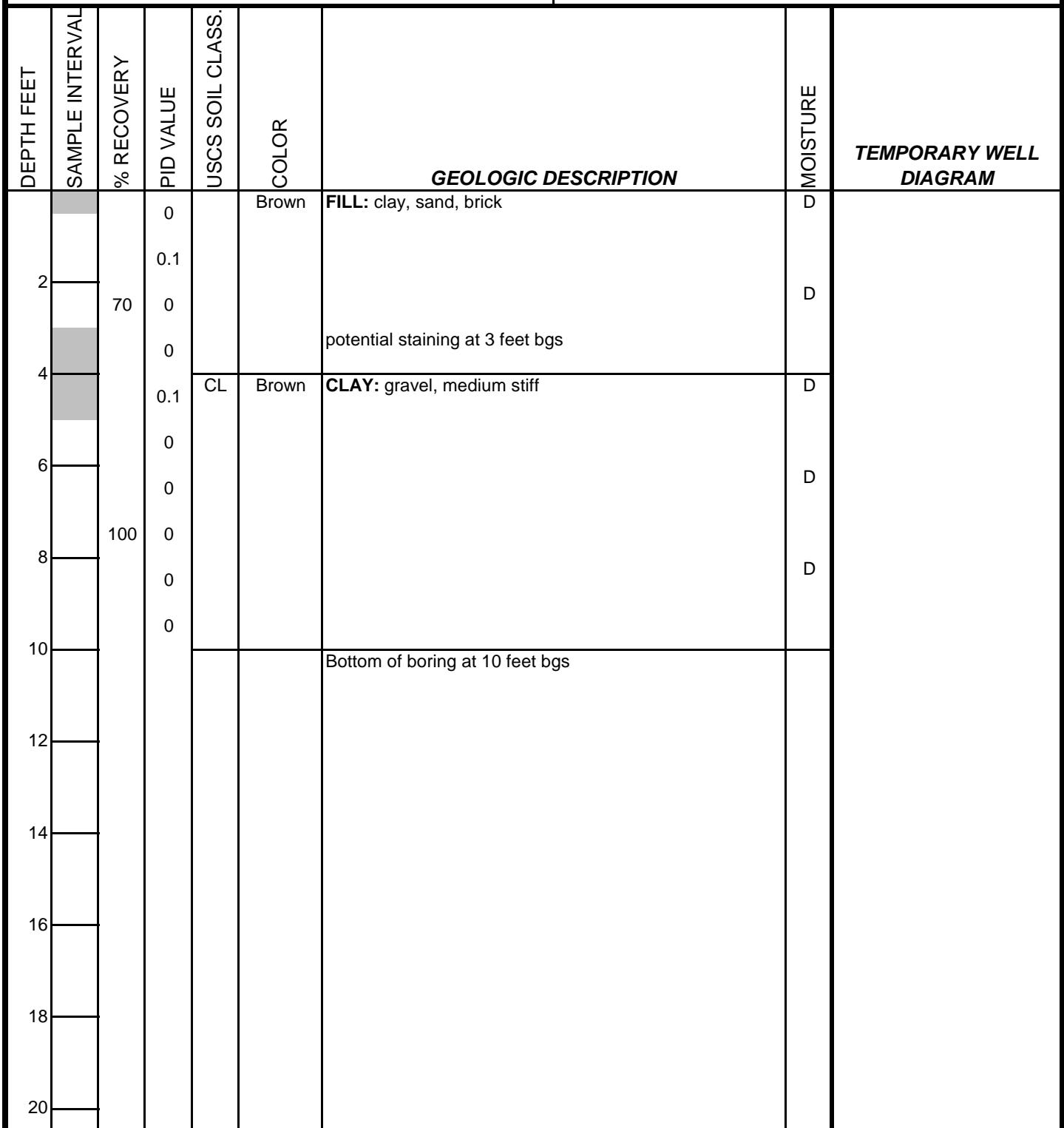
PROJECT NUMBER: 5307D

B-6-06

Drawn By: Janet Michaluk

12.28.06

DRILLING COMPANY:	FIBERTEC	WEATHER:	45 F CLOUDY
TECHNICIAN:	ANDY	BORING DEPTH:	10 FEET BGS
DATE DRILLED:	12.12.06	DEPTH TO GW:	NA
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	NA
FIELD GEOLOGIST:	JANET MICHALUK	SCREEN MATERIAL:	NA





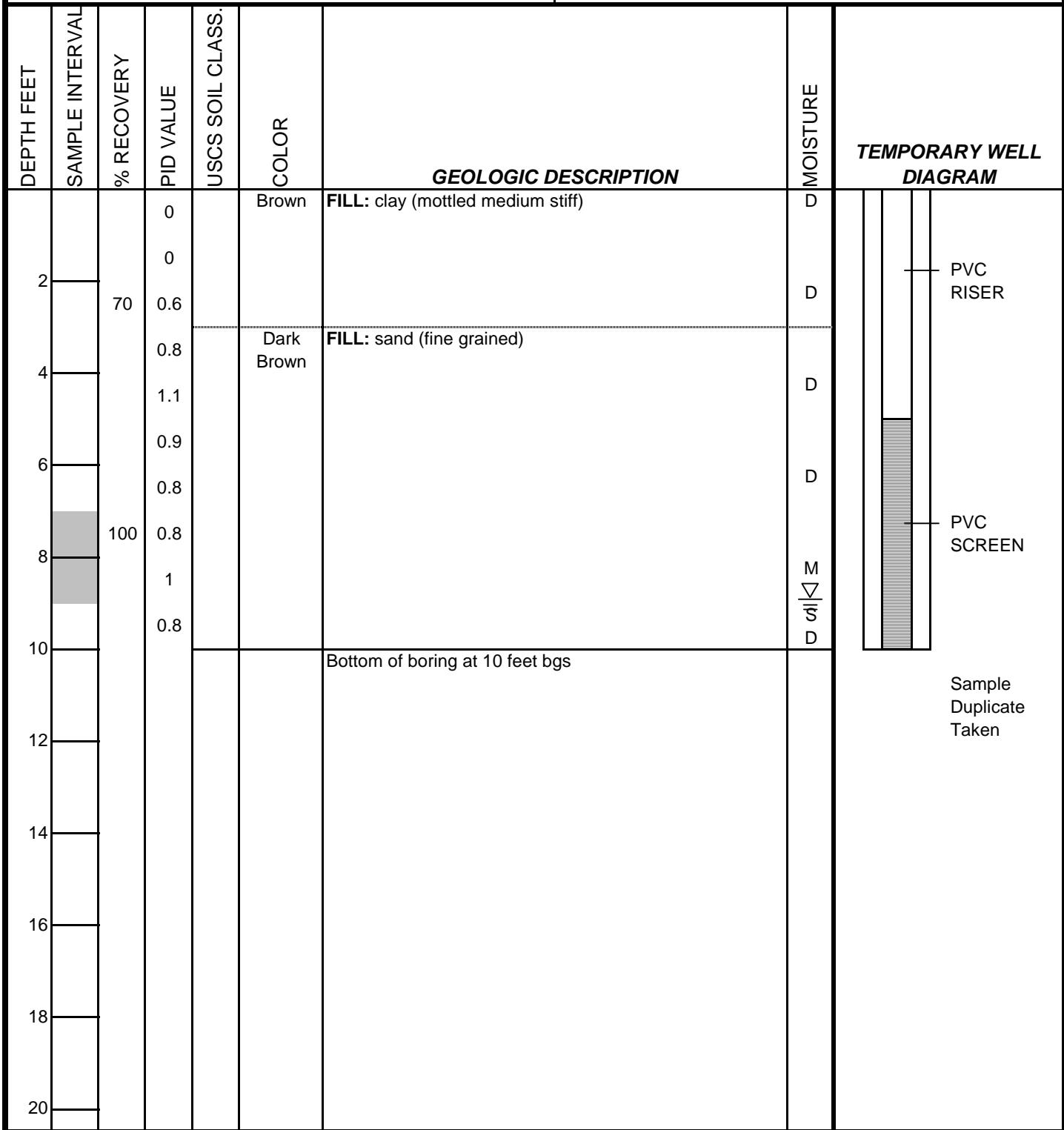
607 Shelby Street, Suite 900, Detroit, MI 48226  
Phone: (313) 962-9353 Fax: (313) 962-0966

**BORING LOG**  
Nailah Commons  
710-714 E. Ferry and 6431 E Kirby Streets  
Detroit, Michigan  
PROJECT NUMBER: 5307D

**B-7-06**

Drawn By: Janet Michaluk  
Date: 12.28.06

DRILLING COMPANY:	FIBERTEC	WEATHER:	45 F CLOUDY
TECHNICIAN:	ANDY	BORING DEPTH:	10 FEET BGS
DATE DRILLED:	12.12.06	DEPTH TO GW:	9 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	5-10 FEET BGS
FIELD GEOLOGIST:	JANET MICHALUK	SCREEN MATERIAL:	1 INCH PVC





607 Shelby Street, Suite 900, Detroit, MI 48226  
Phone: (313) 962-9353 Fax: (313) 962-0966

**BORING LOG**  
Nailah Commons  
710-714 E. Ferry and 6431 E Kirby Streets  
Detroit, Michigan  
PROJECT NUMBER: 5307D

**B-8-06**

Drawn By: Janet Michaluk  
Date: 12.28.06

DRILLING COMPANY: FIBERTEC WEATHER: 45 F CLOUDY

TECHNICIAN: ANDY BORING DEPTH: 19 FEET BGS

DATE DRILLED: 12.12.06 DEPTH TO GW: NA

DRILLING METHOD: GEOPROBE SCREEN INTERVAL: NA

FIELD GEOLOGIST: JANET MICHALUK SCREEN MATERIAL: NA

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	<b>GEOLOGIC DESCRIPTION</b>		MOISTURE	<b>TEMPORARY WELL DIAGRAM</b>
2	80	1	1		Brown	FILL: clay, gravel, brick		D	
4	80	0.9	1		Brown	CLAY: gravel, stiff, mottled		D	
6	100	1.4	0.9					D	
8	100	4.5	1.4			potential odor 7-9 feet bgs		D	
10	100	1	1.4					D	
12	100	0.9	0.8					D	
14	100	0.8	1.1					D	
16	100	0.8	0.8					D	
18	100	0.9	0.8					D	
20	100	0.5	0.3	CL	Grey	CLAY: stiff		D	
		0.3	0.3			Bottom of boring at 19 feet bgs			



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**BORING LOG**  
Nailah Commons  
710-714 E. Ferry and 6431 E Kirby Streets  
Detroit, Michigan  
PROJECT NUMBER: 5307D

**B-9-06**

Drawn By: Janet Michaluk  
Date: 12.28.06

DRILLING COMPANY: FIBERTEC WEATHER: 45 F CLOUDY

TECHNICIAN: ANDY BORING DEPTH: 10 FEET BGS

DATE DRILLED: 12.12.06 DEPTH TO GW: NA

DRILLING METHOD: GEOPROBE SCREEN INTERVAL: NA

FIELD GEOLOGIST: JANET MICHALUK SCREEN MATERIAL: NA

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	<b>GEOLOGIC DESCRIPTION</b>	MOISTURE	<b>TEMPORARY WELL DIAGRAM</b>
								D D D D
2			0	CL	Brown	CLAY: gravel, stiff, mottled		
4			0					
6			0.1					
8			0.1					
10			0.1					
12			0					
14			0					
16			0					
18			0					
20			0			Bottom of boring at 10 feet bgs		



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BORING LOG

Nailah Commons

710-714 E. Ferry and 6431 E Kirby Streets

Detroit, Michigan

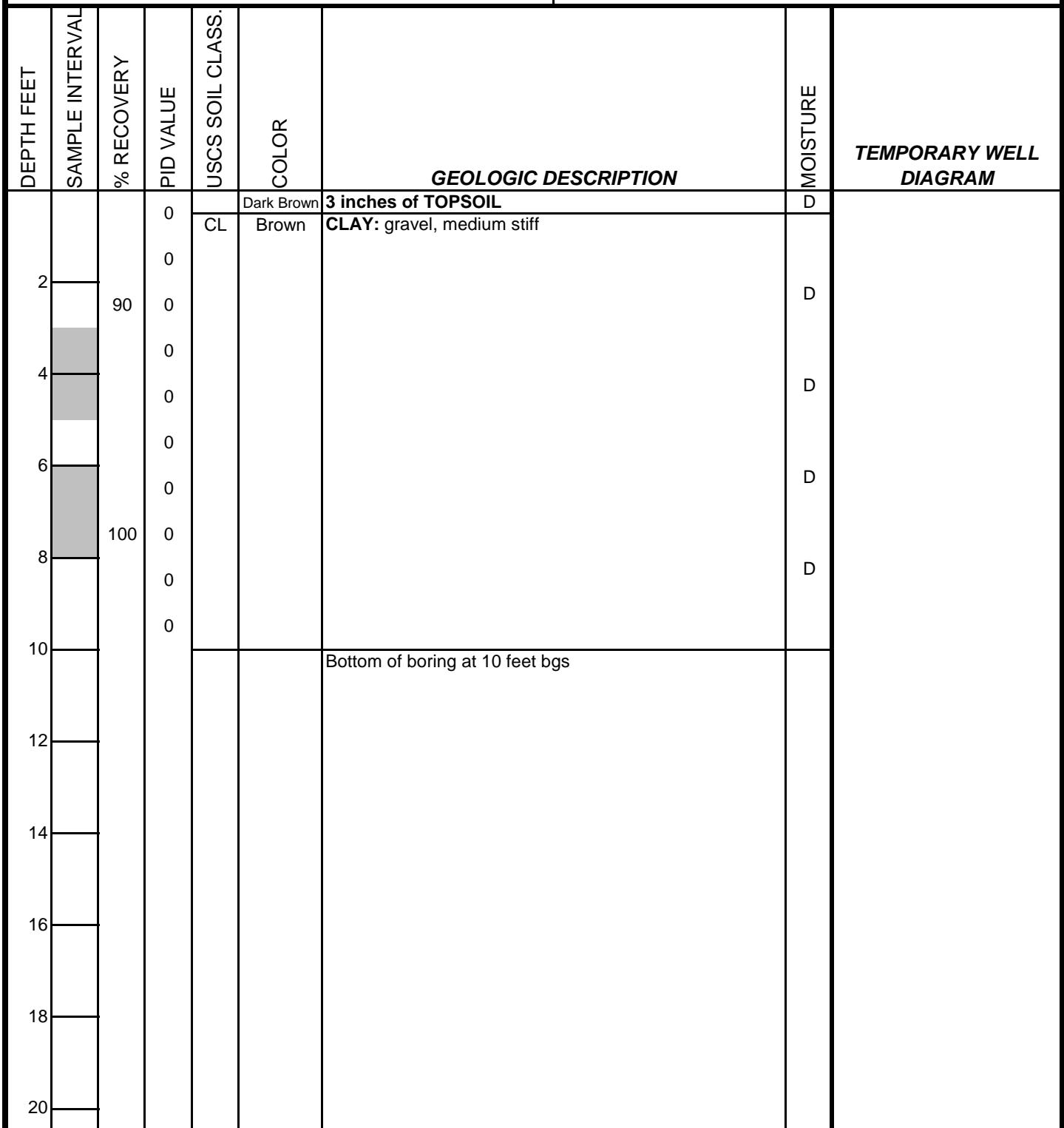
PROJECT NUMBER: 5307D

B-10-06

Drawn By: Janet Michaluk

Date: 12.28.06

DRILLING COMPANY:	FIBERTEC	WEATHER:	45 F CLOUDY
TECHNICIAN:	ANDY	BORING DEPTH:	10 FEET BGS
DATE DRILLED:	12.12.06	DEPTH TO GW:	NA
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	NA
FIELD GEOLOGIST:	JANET MICHALUK	SCREEN MATERIAL:	NA





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**BORING LOG**  
Nailah Commons  
710-714 E. Ferry and 6431 E Kirby Streets  
Detroit, Michigan  
PROJECT NUMBER: 5307D

**B-11-06**

Drawn By: Janet Michaluk  
Date: 12.28.06

DRILLING COMPANY: FIBERTEC WEATHER: 45 F CLOUDY

TECHNICIAN: ANDY BORING DEPTH: 10 FEET BGS

DATE DRILLED: 12.12.06 DEPTH TO GW: NA

DRILLING METHOD: GEOPROBE SCREEN INTERVAL: NA

FIELD GEOLOGIST: JANET MICHALUK SCREEN MATERIAL: NA

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	<b>GEOLOGIC DESCRIPTION</b>		MOISTURE	<b>TEMPORARY WELL DIAGRAM</b>
						3 inches of TOPSOIL	FILL: clay, brick, sand		
2			0	Dark Brown				D	
4			0	Brown				D	
6			0.1	CL	Brown	CLAY: gravel, medium stiff, mottled		D	
8			0					D	
10			0					D	
12			0						
14			0						
16			0						
18			0						
20			0			Bottom of boring at 10 feet bgs			



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**BORING LOG**  
Nailah Commons  
710-714 E. Ferry and 6431 E Kirby Streets  
Detroit, Michigan  
PROJECT NUMBER: 5307D

**B-12-06**

Drawn By: Janet Michaluk  
Date: 01.02.06

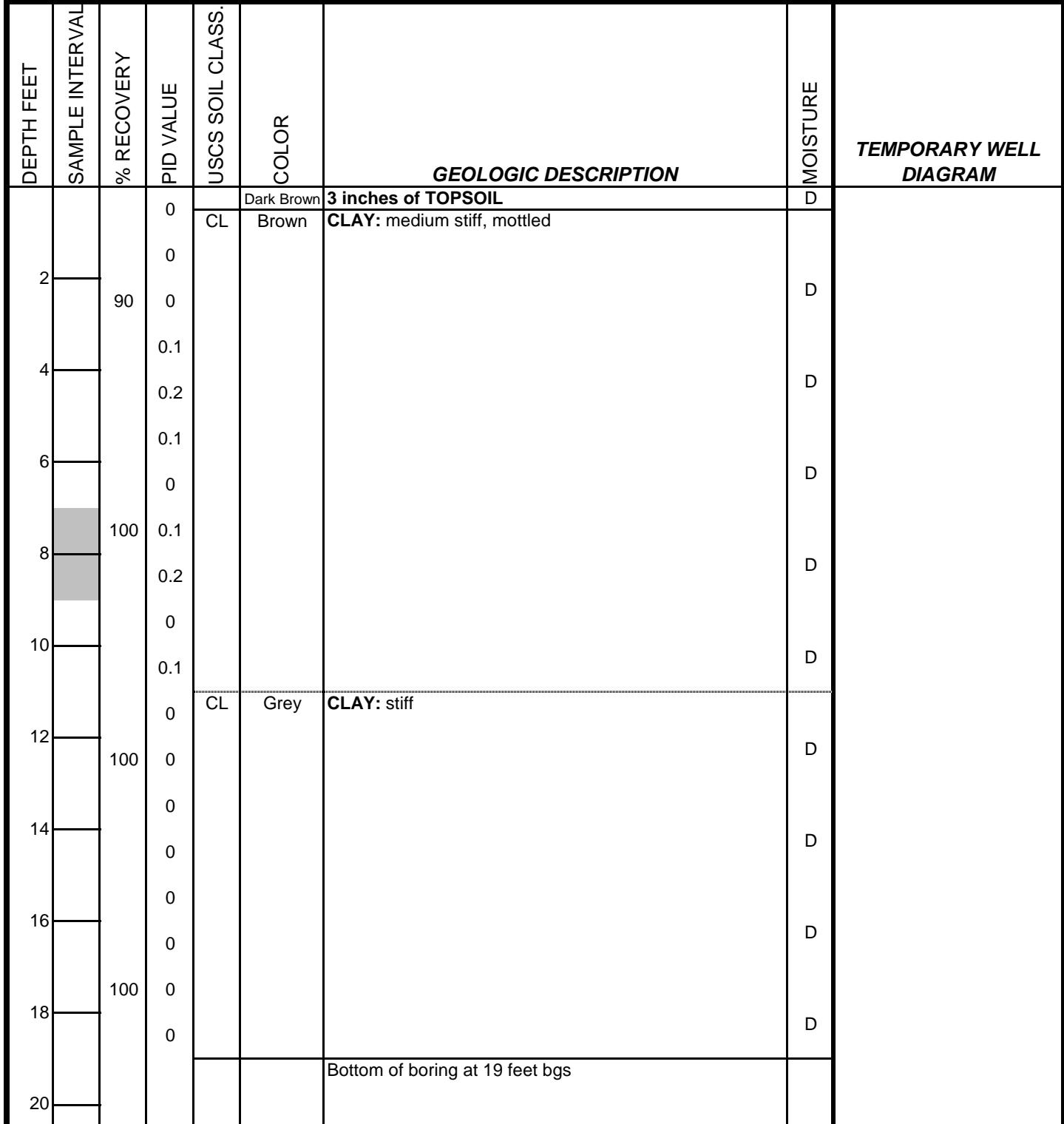
DRILLING COMPANY: FIBERTEC WEATHER: 45 F CLOUDY

TECHNICIAN: ANDY BORING DEPTH: 19 FEET BGS

DATE DRILLED: 12.12.06 DEPTH TO GW: NA

DRILLING METHOD: GEOPROBE SCREEN INTERVAL: NA

FIELD GEOLOGIST: JANET MICHALUK SCREEN MATERIAL: NA



**APPENDIX B**  
**LABORATORY ANALYTICAL REPORT**

Thursday, December 21, 2006

Fibertec Project Number: 21067  
Project Identification: DWCPA-Nailah Commons/5307d-2-20  
Submittal Date: 12/14/2006

Ms. Janet Michaluk  
AKT Peerless Environ. Svcs, Inc. - Detroit  
607 Shelby Street  
Suite 550  
Detroit, MI 48226

Dear Ms. Michaluk,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed as requested and the results compiled in the enclosed report.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345. Please note samples will be disposed of 30 days after reporting date.

Sincerely,

Daryl P. Strandbergh  
Laboratory Director

DPS/kc

Enclosures

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-001</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (0-0.5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>1</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 19.8%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### UST - Used Motor Oils - Volatiles, 5035 (EPA 5035/EPA 8260B)

Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromodichloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS

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 T: (231) 775-8368

F: (517) 699-0388  
 F: (248) 446-5701  
 F: (231) 775-8584

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-001</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (0-0.5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>1</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 19.8%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
<b>UST - Used Motor Oils - Volatiles, 5035 (EPA 5035/EPA 8260B)</b>								
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylene Dibromide	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Methylene Chloride	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,3-Trichlorobenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-001A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (0-0.5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>1</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 19.8%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>20</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Lead + Cadmium + Chromium by ICP/MS (EPA 3050B/EPA 6020)

Cadmium	<b>910</b>	µg/kg	50	1	42490	12/18/2006	12/18/2006	JAG
Chromium	<b>19000</b>	µg/kg	500	1	42490	12/18/2006	12/18/2006	JAG
Lead	<b>250000</b>	µg/kg	1000	1	42490	12/18/2006	12/19/2006	JAG

### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(a)anthracene	<b>430</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(a)pyrene	<b>390</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(b)fluoranthene	<b>500</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Chrysene	<b>490</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Fluoranthene	<b>930</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-001A</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (0-0.5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>1</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>

Comments: **All Results Reported On Dry Weight Basis. Percent Moisture = 19.8%.**  
 Definitions: **ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available**  
**FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;**  
**E = Estimated value; J = Analyte positively identified - estimated value**  
**X - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)**  
**Y - Spike unrecoverable due to sample dilution.**

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Phenanthrene	<b>720</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Pyrene	<b>890</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-002</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>2</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 22.5%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
---------	--------	-------	--------------	-----------------	------------	----------------	--------------------	---------

### UST - Used Motor Oils - Volatiles, 5035 (EPA 5035/EPA 8260B)

Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromodichloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-002</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>2</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 22.5%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
<b>UST - Used Motor Oils - Volatiles, 5035 (EPA 5035/EPA 8260B)</b>								
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylene Dibromide	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Methylene Chloride	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	<b>78</b>	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,3-Trichlorobenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-002A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>2</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 22.5%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>23</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Lead + Cadmium + Chromium by ICP/MS (EPA 3050B/EPA 6020)

Cadmium	<b>330</b>	µg/kg	50	1	42490	12/18/2006	12/18/2006	JAG
Chromium	<b>15000</b>	µg/kg	500	1	42490	12/18/2006	12/18/2006	JAG
Lead	<b>110000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG

### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(b)fluoranthene	<b>380</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Chrysene	<b>350</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Fluoranthene	<b>780</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-002A</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-6-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>2</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 22.5%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Phenanthrene	<b>790</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Pyrene	<b>600</b>	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-005</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-7-06 (7-9)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>5</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 16.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### VOCs - UST - Leaded Gasoline, 5035 (EPA 5035/EPA 8260B)

Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dibromoethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-005A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-7-06 (7-9)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>5</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 16.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>16</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Lead by ICP/MS (EPA 3050B/EPA 6020)

Lead	<b>73000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/20/2006	LAN

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-006</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-7-06W</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>6</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>

Comments:

Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### VOCs - UST - Leaded Gasoline (EPA 5030B/EPA 8260B)

Benzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Naphthalene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Toluene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Xylenes	ND	µg/L	3.0	1	V306L18A	12/18/2006	12/18/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-006A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-7-06W</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>6</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>

## Comments:

## Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535/EPA 8270C)

Acenaphthene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Acenaphthylene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Anthracene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(a)anthracene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(a)pyrene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(b)fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(ghi)perylene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(k)fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Chrysene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Dibenzo(a,h)anthracene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
Fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Fluorene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Indeno(1,2,3-cd)pyrene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
2-Methylnaphthalene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Phenanthrene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
Pyrene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-006B</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-7-06W</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>6</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>

Comments:

Definitions:

**ND** = Not Detected at or above the reporting limit; **RL** = Reporting Limit; **NA** = Not Applicable/Not Available

**FF** = Field Filtered; **B** = Analyte detected in blank; **TIC** = Tentatively Identified Compound;

**E** = Estimated value; **J** = Analyte positively identified - estimated value

**X** - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)

**Y** - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Lead by ICP/MS, Total (EPA 3005A/EPA 6020)

Lead	<b>48</b>	µg/L	3.0	1	42497	12/18/2006	12/18/2006	JAG
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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-008</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-8-06 (7-9)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>8</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.7%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### VOCs - UST - Leaded Gasoline, 5035 (EPA 5035/EPA 8260B)

Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dibromoethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-008A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-8-06 (7-9)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>8</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.7%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>13</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Lead by ICP/MS (EPA 3050B/EPA 6020)

Lead	<b>8000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-009</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-8-06 (10-12)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>9</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### VOCs - UST - Leaded Gasoline, 5035 (EPA 5035/EPA 8260B)

Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dibromoethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-009A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-8-06 (10-12)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>9</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63608</b>

Comments: **All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.**  
 Definitions: **ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available**  
**FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;**  
**E = Estimated value; J = Analyte positively identified - estimated value**  
**X - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)**  
**Y - Spike unrecoverable due to sample dilution.**

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>12</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Lead by ICP/MS (EPA 3050B/EPA 6020)

Lead	<b>9100</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-012</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-9-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>12</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>

Comments:

**All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.**

Definitions:

**ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available****FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;****E = Estimated value; J = Analyte positively identified - estimated value****X - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)****Y - Spike unrecoverable due to sample dilution.**

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Acetone	ND	µg/kg	1000	1	V306L18B	12/12/2006	12/18/2006	JAS
Acrylonitrile	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromodichloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromomethane	ND	µg/kg	200	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Butanone	ND	µg/kg	750	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
sec-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
tert-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Disulfide	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Chlorotoluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-012</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-9-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>12</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/kg	10	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Dichlorodifluoromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/kg	20	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Hexanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS
Methyl Iodide	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Isopropylbenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
4-Methyl-2-pentanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-012</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-9-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>12</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Methylene Chloride	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
MTBE	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Propylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Styrene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichlorofluoromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,3-Trichloropropane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/18/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/18/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-012A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-9-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>12</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>12</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020)

Arsenic	<b>7300</b>	µg/kg	100	1	42490	12/18/2006	12/18/2006	JAG
Barium	<b>52000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
Cadmium	<b>180</b>	µg/kg	50	1	42490	12/18/2006	12/18/2006	JAG
Chromium	<b>16000</b>	µg/kg	500	1	42490	12/18/2006	12/18/2006	JAG
Copper	<b>17000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
Lead	<b>9500</b>	µg/kg	1000	1	42490	12/18/2006	12/19/2006	JAG
Selenium	ND	µg/kg	200	1	42490	12/18/2006	12/18/2006	JAG
Silver	ND	µg/kg	100	1	42490	12/18/2006	12/18/2006	JAG
Zinc	<b>46000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG

### Mercury by CVAAS (EPA 7471A)

Mercury	ND	µg/kg	50	1	42478	12/15/2006	12/15/2006	PAM
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-012A</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-9-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>12</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 12.1%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-014</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>14</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 13.3%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Acetone	ND	µg/kg	1000	1	V306L18B	12/12/2006	12/18/2006	JAS
Acrylonitrile	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromomethane	ND	µg/kg	200	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Butanone	ND	µg/kg	750	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
sec-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
tert-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Disulfide	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Chlorotoluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-014</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>14</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 13.3%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/kg	10	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Dichlorodifluoromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/kg	20	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Hexanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS
Methyl Iodide	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Isopropylbenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
4-Methyl-2-pentanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-014</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>14</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 13.3%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Methylene Chloride	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
MTBE	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Propylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Styrene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichlorofluoromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,3-Trichloropropane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/18/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/18/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-014A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>14</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 13.3%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>13</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-015</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>15</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 11.9%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Acetone	ND	µg/kg	1000	1	V306L18B	12/12/2006	12/18/2006	JAS
Acrylonitrile	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromomethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromodichloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromomethane	ND	µg/kg	200	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Butanone	ND	µg/kg	750	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
sec-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
tert-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Disulfide	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Chlorotoluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-015</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>15</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>

Comments: **All Results Reported On Dry Weight Basis. Percent Moisture = 11.9%.**

Definitions: **ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available**

**FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;**

**E = Estimated value; J = Analyte positively identified - estimated value**

**X - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)**

**Y - Spike unrecoverable due to sample dilution.**

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/kg	10	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Dichlorodifluoromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/kg	20	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Hexanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS
Methyl Iodide	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Isopropylbenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
4-Methyl-2-pentanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-015</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>15</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 11.9%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Methylene Chloride	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
MTBE	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Propylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Styrene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichlorofluoromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,3-Trichloropropane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/18/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/18/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-015A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>15</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 11.9%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>12</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020)

Arsenic	<b>5500</b>	µg/kg	100	1	42490	12/18/2006	12/18/2006	JAG
Barium	<b>65000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
Cadmium	<b>200</b>	µg/kg	50	1	42490	12/18/2006	12/18/2006	JAG
Chromium	<b>15000</b>	µg/kg	500	1	42490	12/18/2006	12/18/2006	JAG
Copper	<b>15000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
Lead	<b>9200</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
Selenium	<b>330</b>	µg/kg	200	1	42490	12/18/2006	12/18/2006	JAG
Silver	ND	µg/kg	100	1	42490	12/18/2006	12/18/2006	JAG
Zinc	<b>46000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG

### Mercury by CVAAS (EPA 7471A)

Mercury	ND	µg/kg	50	1	42478	12/15/2006	12/15/2006	PAM
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-015A</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-10-06 (6-8)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>15</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 11.9%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-017</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-11-06 (2-4)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>17</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>

Comments:

**All Results Reported On Dry Weight Basis. Percent Moisture = 10.8%.**

Definitions:

**ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available**

**FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;**

**E = Estimated value; J = Analyte positively identified - estimated value**

**X - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)**

**Y - Spike unrecoverable due to sample dilution.**

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Acetone	ND	µg/kg	1000	1	V306L18B	12/12/2006	12/18/2006	JAS
Acrylonitrile	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromodichloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Bromomethane	ND	µg/kg	200	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Butanone	ND	µg/kg	750	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
sec-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
tert-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Disulfide	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Chlorotoluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-017</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-11-06 (2-4)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>17</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 10.8%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/kg	10	1	V306L18B	12/12/2006	12/18/2006	JAS
Dibromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Dichlorodifluoromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/kg	20	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Hexanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS
Methyl Iodide	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Isopropylbenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
4-Methyl-2-pentanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-017</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-11-06 (2-4)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>17</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 10.8%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Methylene Chloride	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
2-Methylnaphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
MTBE	ND	µg/kg	250	1	V306L18B	12/12/2006	12/18/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
n-Propylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Styrene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/18/2006	JAS
Trichlorofluoromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,3-Trichloropropane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/18/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/18/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/18/2006	JAS

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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-017A</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-11-06 (2-4)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>17</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>

Comments:

**All Results Reported On Dry Weight Basis. Percent Moisture = 10.8%.**

Definitions:

**ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available**

**FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;**

**E = Estimated value; J = Analyte positively identified - estimated value**

**X - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)**

**Y - Spike unrecoverable due to sample dilution.**

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
Percent Moisture (Water Content)	<b>11</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG

**Dry Weight Determination (ASTM D 2974-87)**

Percent Moisture (Water Content)	<b>11</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-021</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-12-06 (7-9)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>21</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 11.6%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### VOCs - UST - Leaded Gasoline, 5035 (EPA 5035/EPA 8260B)

Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dibromoethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-021A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-12-06 (7-9)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>21</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 11.6%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>12</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Lead by ICP/MS (EPA 3050B/EPA 6020)

Lead	<b>9000</b>	µg/kg	1000	1	42490	12/18/2006	12/18/2006	JAG
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C)

Acenaphthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Acenaphthylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(a)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(b)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(ghi)perylene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Benzo(k)fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Chrysene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluoranthene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Fluorene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
2-Methylnaphthalene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Phenanthrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN
Pyrene	ND	µg/kg	330	1	42458	12/15/2006	12/19/2006	LAN

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-024</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Sample Dup</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>24</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### VOCs - UST - Leaded Gasoline (EPA 5030B/EPA 8260B)

Benzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Naphthalene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Toluene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Xylenes	ND	µg/L	3.0	1	V306L18A	12/18/2006	12/18/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-024A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Sample Dup</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>24</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535/EPA 8270C)

Acenaphthene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Acenaphthylene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Anthracene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(a)anthracene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(a)pyrene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(b)fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(ghi)perylene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(k)fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Chrysene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Dibenzo(a,h)anthracene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
Fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Fluorene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Indeno(1,2,3-cd)pyrene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
2-Methylnaphthalene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Phenanthrene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
Pyrene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-024B</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Sample Dup</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>24</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

Definitions:

**ND** = Not Detected at or above the reporting limit; **RL** = Reporting Limit; **NA** = Not Applicable/Not Available

**FF** = Field Filtered; **B** = Analyte detected in blank; **TIC** = Tentatively Identified Compound;

**E** = Estimated value; **J** = Analyte positively identified - estimated value

**X** - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)

**Y** - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Lead by ICP/MS, Total (EPA 3005A/EPA 6020)

Lead	<b>350</b>	µg/L	3.0	1	42497	12/18/2006	12/18/2006	JAG
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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-025</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Meth Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>25</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

Definitions:

**ND** = Not Detected at or above the reporting limit; **RL** = Reporting Limit; **NA** = Not Applicable/Not Available**FF** = Field Filtered; **B** = Analyte detected in blank; **TIC** = Tentatively Identified Compound;**E** = Estimated value; **J** = Analyte positively identified - estimated value**X** - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)**Y** - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Acetone	ND	µg/kg	1000	1	V306L18B	12/12/2006	12/19/2006	JAS
Acrylonitrile	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Benzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromoform	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromomethane	ND	µg/kg	200	1	V306L18B	12/12/2006	12/19/2006	JAS
Bromodichloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
2-Butanone	ND	µg/kg	750	1	V306L18B	12/12/2006	12/19/2006	JAS
n-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
sec-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
tert-Butylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Carbon Disulfide	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Carbon Tetrachloride	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chlorobenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloroethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloroform	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Chloromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
2-Chlorotoluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Dibromochloromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS

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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-025</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Meth Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>25</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

## Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/kg	10	1	V306L18B	12/12/2006	12/19/2006	JAS
Dibromomethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,4-Dichlorobenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Dichlorodifluoromethane	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
cis-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
trans-1,2-Dichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2-Dichloropropane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
cis-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
trans-1,3-Dichloropropene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylbenzene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Ethylene Dibromide	ND	µg/kg	20	1	V306L18B	12/12/2006	12/19/2006	JAS
2-Hexanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/19/2006	JAS
Methyl Iodide	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Isopropylbenzene	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
4-Methyl-2-pentanone	ND	µg/kg	2500	1	V306L18B	12/12/2006	12/19/2006	JAS

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 F: (248) 446-5701  
 F: (231) 775-8584

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-025</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Meth Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>25</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

## Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)

Methylene Chloride	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
2-Methylnaphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
MTBE	ND	µg/kg	250	1	V306L18B	12/12/2006	12/19/2006	JAS
Naphthalene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
n-Propylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Styrene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Tetrachloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Toluene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/kg	330	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,1-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
1,1,2-Trichloroethane	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Trichloroethene	ND	µg/kg	50	1	V306L18B	12/12/2006	12/19/2006	JAS
Trichlorofluoromethane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,3-Trichloropropane	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/kg	100	1	V306L18B	12/12/2006	12/19/2006	JAS
Vinyl Chloride	ND	µg/kg	40	1	V306L18B	12/12/2006	12/19/2006	JAS
Xylenes	ND	µg/kg	150	1	V306L18B	12/12/2006	12/19/2006	JAS

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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-026</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Equip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>26</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

## Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)

Acetone	ND	µg/L	50	1	V306L18A	12/18/2006	12/18/2006	JAS
Acrylonitrile	ND	µg/L	2.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Benzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromoform	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromochloromethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromodichloromethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromoform	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromomethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Butanone	ND	µg/L	25	1	V306L18A	12/18/2006	12/18/2006	JAS
n-Butylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
sec-Butylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
tert-Butylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Carbon Disulfide	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Carbon Tetrachloride	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chloroethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chloroform	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chloromethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Chlorotoluene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Dibromochloromethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS

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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-026</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Equip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>26</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

## Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

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E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Dibromomethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,3-Dichlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,4-Dichlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Dichlorodifluoromethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1-Dichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1-Dichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
cis-1,2-Dichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
trans-1,2-Dichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichloropropane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
cis-1,3-Dichloropropene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
trans-1,3-Dichloropropene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Hexanone	ND	µg/L	50	1	V306L18A	12/18/2006	12/18/2006	JAS
Methyl Iodide	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Isopropylbenzene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
4-Methyl-2-pentanone	ND	µg/L	50	1	V306L18A	12/18/2006	12/18/2006	JAS

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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-026</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Equip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>26</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

Definitions:

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Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)

Methylene Chloride	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
MTBE	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Naphthalene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
n-Propylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Styrene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Tetrachloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Toluene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,1-Trichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,2-Trichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Trichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Trichlorofluoromethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,3-Trichloropropane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Vinyl Chloride	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Xylenes	ND	µg/L	3.0	1	V306L18A	12/18/2006	12/18/2006	JAS

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-026A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Equip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>26</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

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Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535/EPA 8270C)

Acenaphthene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Acenaphthylene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Anthracene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(a)anthracene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(a)pyrene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(b)fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(ghi)perylene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Benzo(k)fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Chrysene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Dibenzo(a,h)anthracene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
Fluoranthene	ND	µg/L	1.0	1	42469	12/15/2006	12/18/2006	AMJ
Fluorene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Indeno(1,2,3-cd)pyrene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
2-Methylnaphthalene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ
Phenanthrene	ND	µg/L	2.0	1	42469	12/15/2006	12/18/2006	AMJ
Pyrene	ND	µg/L	5.0	1	42469	12/15/2006	12/18/2006	AMJ

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-026B</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Equip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>26</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

Comments:

Definitions:

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**FF** = Field Filtered; **B** = Analyte detected in blank; **TIC** = Tentatively Identified Compound;

**E** = Estimated value; **J** = Analyte positively identified - estimated value

**X** - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked)

**Y** - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Michigan 10 Elements by ICP/MS, Total (EPA 3005A/EPA 6020)

Arsenic	ND	µg/L	5.0	1	42497	12/18/2006	12/18/2006	JAG
Barium	ND	µg/L	100	1	42497	12/18/2006	12/18/2006	JAG
Cadmium	ND	µg/L	1.0	1	42497	12/18/2006	12/18/2006	JAG
Chromium	ND	µg/L	10	1	42497	12/18/2006	12/18/2006	JAG
Copper	ND	µg/L	4.0	1	42497	12/18/2006	12/18/2006	JAG
Lead	ND	µg/L	3.0	1	42497	12/18/2006	12/18/2006	JAG
Selenium	ND	µg/L	5.0	1	42497	12/18/2006	12/18/2006	JAG
Silver	ND	µg/L	0.20	1	42497	12/18/2006	12/18/2006	JAG
Zinc	ND	µg/L	50	1	42497	12/18/2006	12/18/2006	JAG

#### Mercury by CVAAS, Total (EPA 7470A)

Mercury	ND	µg/L	0.20	1	42479	12/15/2006	12/15/2006	PAM
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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-027</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Trip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>27</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

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E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)

Acetone	ND	µg/L	50	1	V306L18A	12/18/2006	12/18/2006	JAS
Acrylonitrile	ND	µg/L	2.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Benzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromoform	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromomethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromodichloromethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromoform	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Bromomethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Butanone	ND	µg/L	25	1	V306L18A	12/18/2006	12/18/2006	JAS
n-Butylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
sec-Butylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
tert-Butylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Carbon Disulfide	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Carbon Tetrachloride	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chloroethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chloroform	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Chloromethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Chlorotoluene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Dibromochloromethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS

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# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-027</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Trip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>27</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

## Definitions:

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Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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### Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)

1,2-Dibromo-3-chloropropane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Dibromomethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,3-Dichlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,4-Dichlorobenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Dichlorodifluoromethane	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1-Dichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1-Dichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
cis-1,2-Dichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
trans-1,2-Dichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2-Dichloropropane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
cis-1,3-Dichloropropene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
trans-1,3-Dichloropropene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Ethylene Dibromide	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Hexanone	ND	µg/L	50	1	V306L18A	12/18/2006	12/18/2006	JAS
Methyl Iodide	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Isopropylbenzene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
4-Methyl-2-pentanone	ND	µg/L	50	1	V306L18A	12/18/2006	12/18/2006	JAS

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 8660 S. Mackinaw Trail

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 Cadillac, MI 49601

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 T: (231) 775-8368

F: (517) 699-0388  
 F: (248) 446-5701  
 F: (231) 775-8584

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Ground Water</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-027</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>Trip Blank</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>27</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63603</b>

## Comments:

## Definitions:

ND = Not Detected at or above the reporting limit; RL = Reporting Limit; NA = Not Applicable/Not Available

FF = Field Filtered; B = Analyte detected in blank; TIC = Tentatively Identified Compound;

E = Estimated value; J = Analyte positively identified - estimated value

X - Spike recovery distorted due to elevated sample target analyte concentration (&gt;=4X the amount spiked)

Y - Spike unrecoverable due to sample dilution.

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
---------	--------	-------	--------------	-----------------	------------	----------------	--------------------	---------

### Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)

Methylene Chloride	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
2-Methylnaphthalene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
MTBE	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Naphthalene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
n-Propylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Styrene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Tetrachloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Toluene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,4-Trichlorobenzene	ND	µg/L	5.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,1-Trichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,1,2-Trichloroethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Trichloroethene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Trichlorofluoromethane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,3-Trichloropropane	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,2,4-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
1,3,5-Trimethylbenzene	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Vinyl Chloride	ND	µg/L	1.0	1	V306L18A	12/18/2006	12/18/2006	JAS
Xylenes	ND	µg/L	3.0	1	V306L18A	12/18/2006	12/18/2006	JAS

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F: (517) 699-0388  
 F: (248) 446-5701  
 F: (231) 775-8584

Wednesday, January 10, 2007

Fibertec Project Number: 21067 - Supplemental Report  
Project Identification: DWCPA-Nailah Commons/5307d-2-20  
Submittal Date: 12/14/2006

Ms. Janet Michaluk  
AKT Peerless Environ. Svcs, Inc. - Detroit  
607 Shelby Street  
Suite 550  
Detroit, MI 48226

Dear Ms. Michaluk,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed as requested and the results compiled in the enclosed report.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345. Please note samples will be disposed of 30 days after reporting date.

Sincerely,

Daryl P. Strandbergh  
Laboratory Director

DPS/kc

Enclosures

## Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-017A</b>

### Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-11-06 (2-4)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>17</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 10.8%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
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#### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>11</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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#### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) (Extraction exceeded 14 day hold time)

Acenaphthene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Acenaphthylene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Anthracene	<b>510</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(a)anthracene	<b>1600</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(a)pyrene	<b>1400</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(b)fluoranthene	<b>1600</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(ghi)perylene	<b>800</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(k)fluoranthene	<b>720</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Chrysene	<b>1400</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Fluoranthene	<b>3400</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Fluorene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Indeno(1,2,3-cd)pyrene	<b>880</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
2-Methylnaphthalene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Naphthalene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Phenanthrene	<b>2100</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Pyrene	<b>2700</b>	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ

# Analytical Laboratory Report

Client Identification:	<b>AKT Peerless Environ. Svcs, Inc. - Detroit</b>	Sample Matrix:	<b>Soil/Solid</b>
Fibertec Project Number:	<b>21067</b>	Sample Number:	<b>21067-020A</b>

## Client Sample Information

Project Identification:	<b>DWCPA-Nailah Commons</b>	Client Sample Description:	<b>B-12-06 (3-5)</b>
Project Number:	<b>5307d-2-20</b>	Client Sample Number:	<b>20</b>
Sample Date:	<b>12/12/2006</b>	Chain of Custody Number:	<b>63607</b>
Comments:	<b>All Results Reported On Dry Weight Basis. Percent Moisture = 14.3%.</b>		
Definitions:	<b>ND</b> = Not Detected at or above the reporting limit; <b>RL</b> = Reporting Limit; <b>NA</b> = Not Applicable/Not Available <b>FF</b> = Field Filtered; <b>B</b> = Analyte detected in blank; <b>TIC</b> = Tentatively Identified Compound; <b>E</b> = Estimated value; <b>J</b> = Analyte positively identified - estimated value <b>X</b> - Spike recovery distorted due to elevated sample target analyte concentration (>=4X the amount spiked) <b>Y</b> - Spike unrecoverable due to sample dilution.		

Analyte	Result	Units	Report Limit	Dilution Factor	Prep Batch	Prep Date/Time	Analysis Date/Time	Analyst
---------	--------	-------	--------------	-----------------	------------	----------------	--------------------	---------

### Dry Weight Determination (ASTM D 2974-87)

Percent Moisture (Water Content)	<b>14</b>	%	0.1	1	NA	12/15/2006	12/18/2006	BMG
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### Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) (Extraction exceeded 14 day hold time)

Acenaphthene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Acenaphthylene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Anthracene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(a)anthracene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(a)pyrene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(b)fluoranthene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(ghi)perylene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Benzo(k)fluoranthene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Chrysene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Dibenzo(a,h)anthracene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Fluoranthene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Fluorene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Indeno(1,2,3-cd)pyrene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
2-Methylnaphthalene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Naphthalene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Phenanthrene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ
Pyrene	ND	µg/kg	330	1	42591	1/9/2007	1/9/2007	AMJ

**APPENDIX C**  
**GEOPHYSICAL SURVEY REPORT**



**Geophysical Imaging, Inc.**  
7357 Woodshire Ln  
Holland, OH 43528  
Phone/fax: (419) 868-2902

December 16, 2006

GII Project No. 06-192

Mr. Timothy J. McGahey, CHMM  
Senior Project Manager  
AKT Peerless Environmental Services  
607 Shelby Street, Suite 900  
Detroit, Michigan 48226

**Geophysical Survey Report  
710 – 714 East Ferry Street  
Detroit, Michigan**

Dear Mr. McGahey:

This letter report summarizes the results and interpretations of the geophysical survey performed for AKT Peerless Environmental Services (AKT) by Geophysical Imaging, Inc. (GII) at the above-referenced site. The purpose of the survey was to detect if abandoned underground storage tanks (USTs) are present at the site.

***Project Background***

According to AKT, the site was a former gasoline service station. The status of the UST is unknown.

***Field Activities and Data Processing***

On December 10, 2006, a combined electromagnetic induction (EM) and ground-penetrating radar (GPR) survey was conducted by GII at the site in the area designated by AKT. Figure 1 depicts the approximate areas surveyed and the general site features. The EM survey was performed in “continuous survey” mode along 2.5-foot spaced transects. GII used a GSSI EMP-400 multi-frequency EM profiler with integrated GPS. Two EM exploration frequencies [9,800 Hz (same as used by EM-31) and 12,000 Hz] were selected for the site. Prior to the EM survey, zero in-phase calibration was performed at the site. In “continuous survey” mode, data are acquired at a fixed time interval while the operator walks along a survey line at a steady pace. Both in-phase (metal sensitive) and quadrature (terrain conductivity) measurements were



acquired during the EM survey. These measurements were automatically stored in a wireless data logger, and later downloaded to a computer for subsequent processing. Two software packages were utilized to define suspect areas, MagMap (supplied by E.G. & G. Geometrics) and SURFER (developed by Golden Software). Selected EM measurement contour maps are presented on Figures 2 and 3.

The GPR survey was performed along 5-foot spaced profiles. GII used a GSSI SIR-3000 GPR system with a 400-megahertz (MHz) dipole antenna mounted on a wheeled cart to scan the survey area. Several test scans were completed to observe the overall GPR responses to setup survey parameters prior to the GPR survey. A survey wheel was used to acquire distance-based data at the density of 18 scans per foot. Anomalous reflective objects/structures were noted and marked on the ground surface during the data acquisition. Additional linescans were performed to better understand anomalous targets. The GPR data were automatically stored in a data logger, and later downloaded to a computer for subsequent processing. The data processing consisted of Time-Zero Adjustment (time zero of the vertical scale aligned with the surface reflection) and Background Removal (horizontal banding) to the GPR scans. Targeted GPR linescans are presented on Figure 4. Targeted magnetometer survey was also conducted at the EM in-phase anomaly area to differentiate between UST and pipes/rebar concrete. However, magnetometer grid survey was not conducted at the site.

### ***Results and Interpretations***

The EM survey identified three strong EM in-phase anomalies at the site. Four targeted GPR linescans (Linescans A, B, C, and D) were performed in these anomaly areas. Strong signal attenuation effects were observed on GPR scans. The estimated GPR signal penetration depth was about two feet or less. Targeted magnetometer surveys were conducted in these EM anomaly areas. Magnetometer survey identified two moderate coincident magnetic anomalies located at the northern and northeastern portions of the site. Based on the EM and Magnetometer data, these two anomaly areas were interpreted to represent possible former dispensers, buried pipes/rebar concrete. Magnetometer survey identified one strong coincident magnetic anomaly located at the eastern central portion of the site. The magnitude of the magnetic anomaly is similar to the magnetometer response that is often observed over large steel objects such as USTs, cluster of metallic pipes or rebar concrete. Based on the EM and magnetometer data, this anomaly area was interpreted to represent possible buried USTs. Other EM in-phase anomalies identified during the survey were associated with the known aboveground interference, such as chain link fence, surface metal debris, catch basin, and rebar concrete piles, etc. GPR survey identified one backfilled excavation located at the southern portion of the site. Two targeted GPR linescans (Linescans E and F) were performed in this anomaly area. Deeper, more chaotic reflection responses were identified on GPR scans. Based on the GPR data and site history, this anomaly area was interpreted to represent a possible UST cavity.



## ***Survey Methods and Limitations***

The EM operates by driving a transmitter coil with an AC current at audio frequencies to generate a sinusoidal time-varying magnetic field. A receiver coil is positioned on or near the surface of the earth some distance away from the transmitter coil. The transmitted time-varying magnetic field generated by the transmitter coil induces secondary currents to flow in the subsurface, which in turn generate a secondary (induced) magnetic field. Both the induced secondary field, along with the primary field, is detected and recorded at the receiver coil.

The EM instruments contain two sets of coils that are located within opposite sides of the tool. One set of coil is used to transmit a primary magnetic field, which generates electrical current in the ground. The created current then generates a secondary magnetic field, which is sensed by the coils in the receiver end of the instrument. Data is then collected on a control unit indicating the conductivity of the earth. The magnitude of the secondary field is broken into two orthogonal components. The two components of the secondary magnetic field are in-phase (real component) and the quadrature or out-of-phase (imaginary component). For instruments operating within the Low Induction Number (LIN) approximation, the magnitude of the quadrature component of the secondary field is linearly proportional to the apparent conductivity. The in-phase measurement is most sensitive to buried metallic objects and can be used to locate buried steel reinforced structures, UST, large utility pipes, and other metallic targets. In the absence of a highly conductive material (e.g. metallic targets) in the subsurface, the magnitude of the in-phase component is dependant on the magnetic susceptibility of the subsurface. The EMP-400 allows multiple frequency measurements at each survey station. The depth of exploration depends on the operating frequencies, target size and shape, and host-target conductivity. Site conditions that can limit, even preclude EM data interpretation include: urban or developed areas, thunderstorms and nearby metallic objects at or above the ground surface such as parked vehicles near the survey stations, rebar concrete, metal siding, overhead power lines, metal fence/guard rail, and manhole covers, etc. Areas of a site that may be difficult or impossible to survey include: steep slopes, standing water areas, overgrown vegetation areas, and obstructed areas.

GPR operates by transmitting pulses of ultra high frequency radio waves (microwave electromagnetic energy) down into the ground through a transducer or antenna. When the transmitted signal enters the ground, it contacts objects or subsurface strata with different electrical conductivities and dielectric constants. Part of the ground penetrating radar waves reflect off of the object or interface; while the rest of the waves pass through to the next interface. The reflected signals return to the antenna, pass through the antenna, and are received by the digital control unit. The control unit registers the reflections against two-way travel time in nanoseconds (ns) and then amplifies the signals. The output signal voltage peaks are plotted on the GPR profile as different color bands by the digital control unit.



GPR waves with 400 MHz frequency typically can reach depths up to 12 feet below ground surface (bgs) in low conductivity materials such as dry sand or granite. Clays, shale, and other high conductivity materials or materials having high moisture, may attenuate or absorb GPR signals, greatly decreasing the depth of penetration to 3 feet bgs or less. Other site conditions that can limit even preclude GPR data acquisition and interpretation include: surface obstructions, uneven ground surface, standing water, cellular tower, rebar concrete, small or shallow buried objects, and over-grown vegetation, etc.

A proton magnetometer utilizes the procession of spinning protons or nuclei of the hydrogen atom in a sample of hydrocarbon fluid to measure the total magnetic intensity. These spinning protons behave as small, spinning magnetic dipoles, and are temporarily polarized by application of a uniform magnetic field generated by a current in a coil of wire. When the current is removed, the spin of the proton causes them to precess about the direction of the earth's magnetic field. The precessing protons then generate a small signal in the same coil used to polarize them, a signal whose frequency is precisely proportional to the total magnetic field intensity. The precession frequency is measured by digital counters as the absolute value of the total magnetic field intensity with an accuracy of 1 gamma, in earth's field of approximately 55,000 gammas.

Buried underground magnetic targets, such as USTs containing iron or steel, are often highly magnetized by induction in the earth's magnetic field, and cause large anomalies locally up to several thousands of gammas in the earth's main magnetic field. Magnetic methods are generally used to map the location and size of ferrous objects. However, the proton precession signal is sharply degraded in the presence of a large magnetic field gradient greater than 200 gammas per foot. Also, the signal amplitude from the sensor must be measured to an accuracy of 0.04 Hertz (Hz) of the precession frequency of several thousand Hz. This small signal can be rendered immeasurable by the effects of nearby alternating current electrical power sources. Therefore, a proton magnetometer cannot usually be operated within the confines of a typical building. In addition, site conditions that can limit, even preclude magnetometer data interpretation include: parked vehicles near the survey stations, underground metal pipes, metal siding, overhead power lines, metal fence/guard rail, and manhole covers, etc.



## **Conclusions**

This geophysical survey has identified four anomalies, one of which may represent buried USTs. The geophysical results presented herein are interpreted. No warranty, certification, or statement of fact, either expressed or implied, regarding actual subsurface conditions within the surveyed area(s) is contained herein. If uncertainties exist regarding the presence of geophysical anomalies, test pit excavations should be conducted to explore the actual subsurface conditions. No interpretation of subsurface conditions can be made for areas not surveyed or paved with rebar concrete. Please note that the survey data reflect site conditions on the day of the field survey.

GII greatly appreciates this opportunity to provide AKT with our geophysical survey service. If you have any questions, please contact me at (419) 868-2902.

Sincerely,

**Geophysical Imaging, Inc.**

A handwritten signature in blue ink, appearing to read "Ming He".

Ming He  
President/Geophysicist

## Attachments

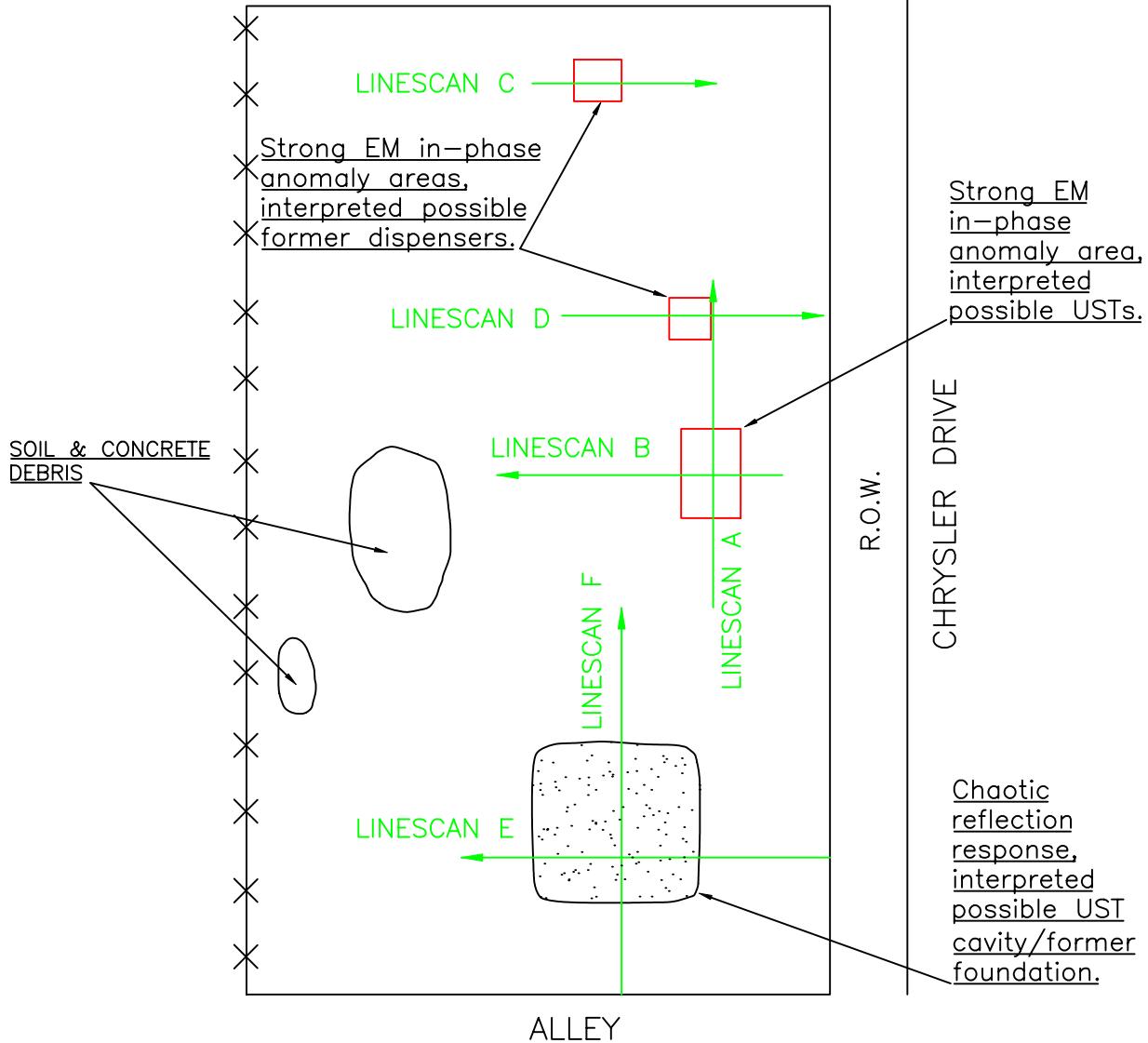
Figures 1 – 4

G:\GII\PROJECTS\06-192 AKT DETROIT MI\06-192 AKT DETROIT MI REPORT.DOC

EAST FERRY STREET



R.O.W.



LEGEND:

———— CHAIN LINK FENCE

APPROXIMATE SCALE - FEET



FIGURE 1  
SURVEY DIAGRAM WITH GEOPHYSICAL INTERPRETATIONS

710 - 714 EAST FERRY STREET  
DETROIT, MICHIGAN

CLIENT

AKT PEERLESS ENVIRONMENTAL SERVICES  
DETROIT, MICHIGAN

DRAWN MH

CHECKED

APPROVED

DRAWING NUMBER

06-192Fig1



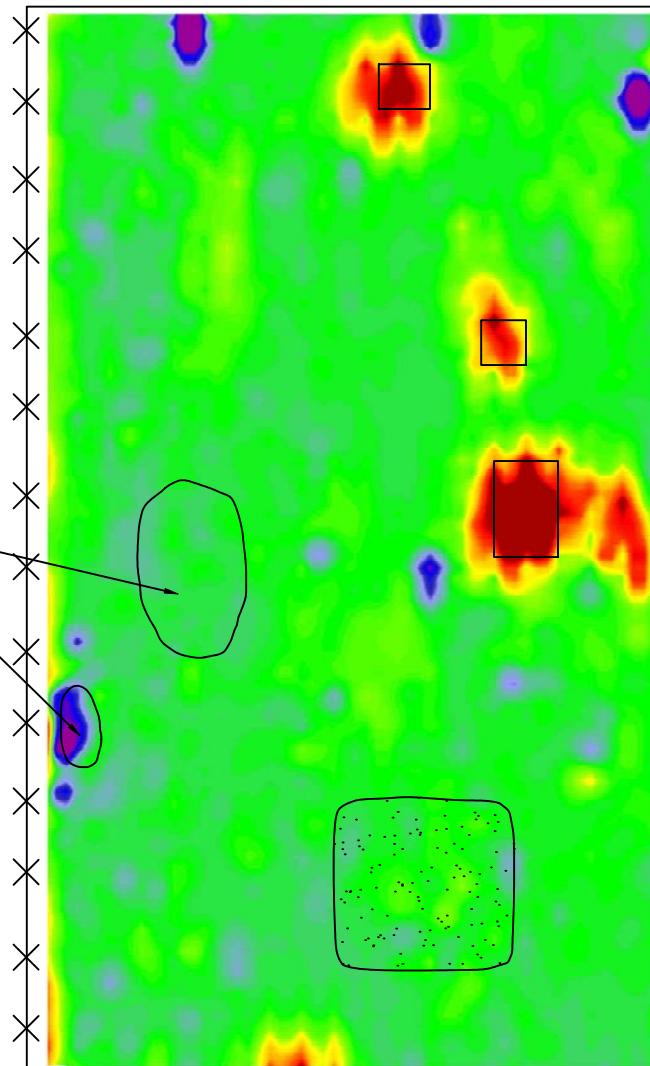
GEOPHYSICAL IMAGING, INC.  
7357 WOODSHIRE LANE  
HOLLAND, OHIO

EAST FERRY STREET



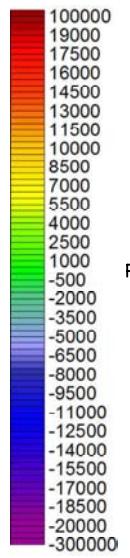
R.O.W.

SOIL & CONCRETE  
DEBRIS



R.O.W.

CHRYSLER DRIVE



ALLEY

LEGEND:

———— CHAIN LINK FENCE

APPROXIMATE  
SCALE - FEET



FIGURE 2  
EM IN-PHASE (METAL SENSITIVE)  
CONTOUR MAP – 9,800 Hz  
710 – 714 EAST FERRY STREET  
DETROIT, MICHIGAN

CLIENT

AKT PEERLESS ENVIRONMENTAL SERVICES  
DETROIT, MICHIGAN

DRAWN MH

CHECKED

APPROVED

DRAWING NUMBER

06-192Fig2



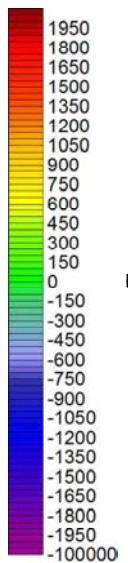
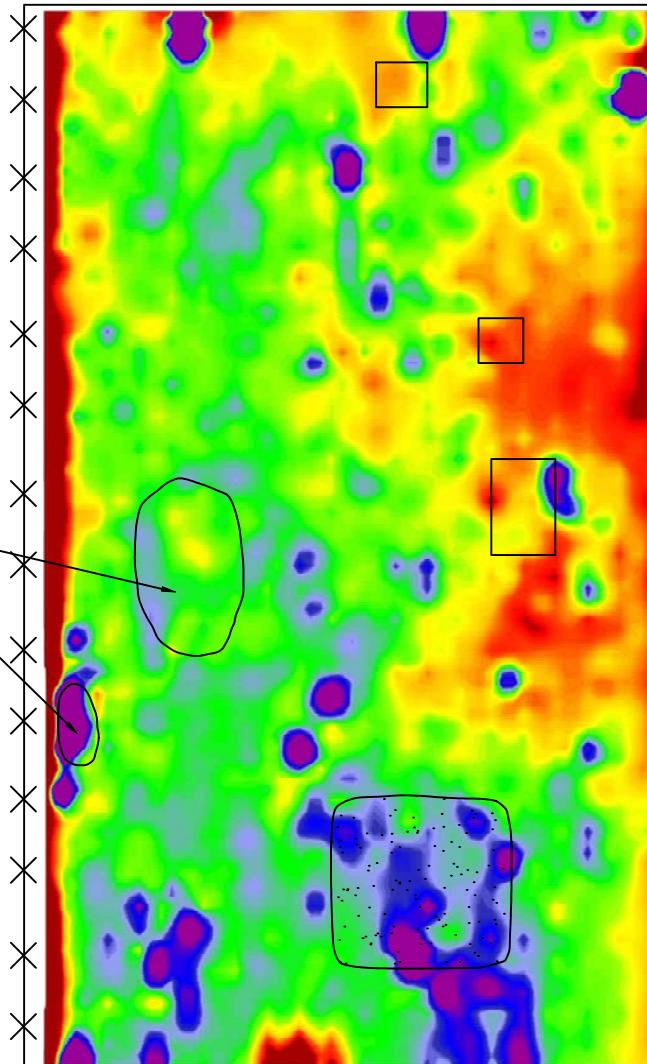
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HOLLAND, OHIO

# EAST FERRY STREET



R.O.W.

SOIL & CONCRETE  
DEBRIS



ALLEY

R.O.W.  
CHRYSLER DRIVE

## LEGEND:

———— CHAIN LINK FENCE

APPROXIMATE  
SCALE - FEET



## FIGURE 3 EM QUADRATURE (TERRAIN CONDUCTIVITY) CONTOUR MAP – 9,800 Hz

710 – 714 EAST FERRY STREET  
DETROIT, MICHIGAN

## CLIENT

AKT PEERLESS ENVIRONMENTAL SERVICES  
DETROIT, MICHIGAN

DRAWN MH

CHECKED

APPROVED

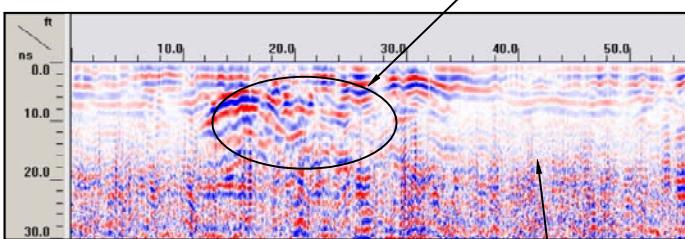
DRAWING NUMBER

06-192Fig3

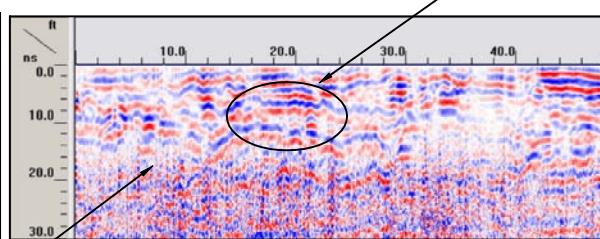


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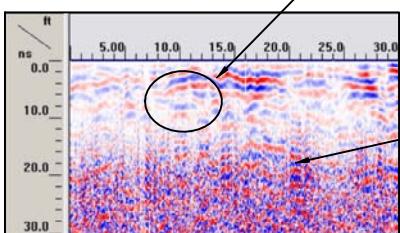
LINESCAN A: strong EM in-phase and magnetic anomaly area, interpreted possible UST.



LINESCAN B: strong EM in-phase and magnetic anomaly area, interpreted possible UST.

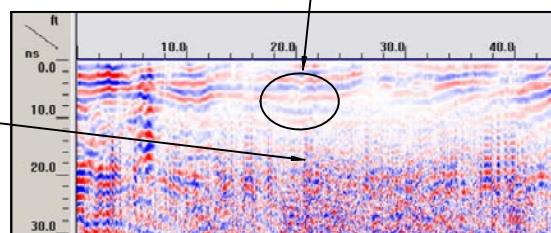


LINESCAN C: strong EM in-phase and moderate magnetic anomaly area, interpreted possible former dispenser.

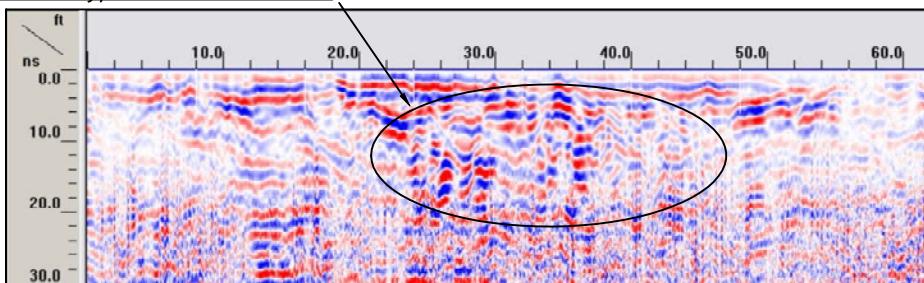


Strong signal  
attenuation effects

LINESCAN D: strong EM in-phase and moderate magnetic anomaly area, interpreted possible former dispenser.



LINESCAN E: deeper, more chaotic reflection response, interpreted possible UST cavity/former foundation.



LINESCAN F: deeper, more chaotic reflection response, interpreted possible UST cavity/former foundation.

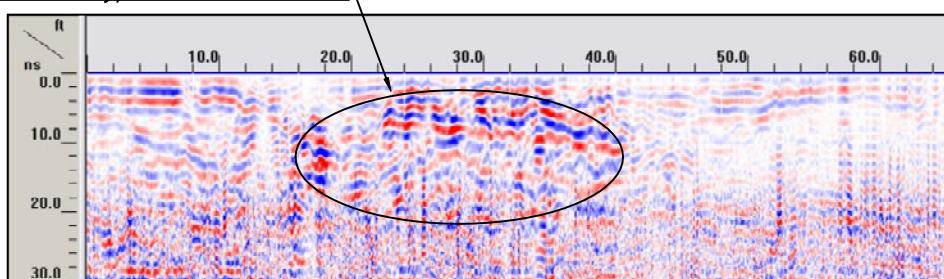


FIGURE 4  
TARGETED GPR LINESCANS  
LINESCAN A, B, C, D, E AND F  
710 – 714 EAST FERRY STREET  
DETROIT, MICHIGAN

CLIENT  
AKT PEERLESS ENVIRONMENTAL SERVICES  
DETROIT, MICHIGAN

DRAWN MH

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